

Michigan Agricultural Statistics 2005-2006



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UNITED STATES DEPARTMENT OF AGRICULTURE

USDA,
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Michigan
Field Office



Michigan
Department
of
Agriculture

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Michigan Agricultural Statistics 2005-2006

USDA, NASS, Michigan Field Office

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Issued cooperatively by:



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STATE OF MICHIGAN
DEPARTMENT OF AGRICULTURE
LANSING

MITCH IRWIN
DIRECTOR

September 2006

The Michigan Department of Agriculture (MDA) is proud of the role it plays in assuring a strong, viable food and agriculture industry in our state. We are equally proud of the partnerships we have built with producers, industry organizations, and our federal counterparts, to continually grow our industry. This publication underscores the importance of the food and agricultural sector, Michigan's second largest industry, to our state's economy.

The impact of Michigan agriculture on our state's economy is \$60.1 billion and growing. Production agriculture, food processing and related businesses employ about one million Michigan residents.

Michigan produces over 200 commodities on a commercial basis, making the state second only to California in agricultural diversity. Our state leads the nation in the production of 20 commodities (including tart cherries, blueberries, Niagara grapes, cucumbers for pickle processing, 13 floriculture categories, and three varieties of dry beans) and ranks in the top 10 of 29 other commodities.

Michigan has about 10.1 million acres of farmland, and the state is home to 53,000 farms averaging 191 acres each. More than 35 percent of the state's total farmland is in some form of preservation agreement.

Throughout the past year, the department has faced many complex challenges and realized many successes. From the opening of the state's first ethanol plant to the continued hurdles of Emerald Ash Borer and Bovine Tuberculosis, MDA staff is committed to helping Michigan's agricultural community thrive, ensuring a fair and honest marketplace for Michigan citizens rising fuel prices.

We will continue to work in our priority areas to protect consumers by ensuring a safe, secure and wholesome food supply; promote Michigan agricultural products and the expansion of value-added opportunities and agricultural tourism in our state; and preserve farmland and the quality of life in Michigan's rural areas.

As Michigan faces the challenge of a changing business environment and workforce, all industries are affected, including the food and agriculture sector. Michigan's food and agriculture industry is poised to take its place as a leader in the nation's bio-based economy. Imagine construction materials made from corn and soybeans, or life-saving pharmaceuticals from by-products of agricultural processing. These and so much more are now possible, and Michigan will be the epicenter of this new manufacturing boom.

It is an exciting time to be a part of this industry. We will continue to serve, promote and protect the food, agricultural, environmental and economic interests of the people of Michigan with great pride.

If you have questions or comments, about MDA or our state's agriculture industry, please contact the department at (800) 282-3939 or send an email to mda-info@michigan.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Mitch Irwin".

Mitch Irwin
Director



NASS

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September 2006

Current initiatives on bio-security and homeland security, bio-mass and energy production, conservation practices, diseases and invasive species, food quality and its availability, all have a common thread back to agriculture. Agricultural policy faces on-going challenges but also many opportunities for promotion, growth, and expansion. It is significant to note that while Michigan's overall economy remains challenged, the value of agriculture has continued to show solid growth. A study published by Michigan State University indicates the direct and indirect linked benefits from agriculture total \$60.1 billion. This important economic indicator was derived from National Agricultural Statistics Service data and other ancillary economic information. Critical and sensitive decisions directly impacting economic development, food safety, environmental stewardship, animal and plant health and protection, and homeland security rely extensively on grower reported information. Without voluntary grower survey reports, factual and reliable information would not be available to all data users. Only a few special interest groups would have the resources necessary to compile this information and a level playing field would not exist. Thanks to Michigan producers for recognizing and supporting this service which directly benefits the entire agricultural industry as a whole. Doing so sends the message, "Agriculture Counts".

The Michigan Field Office of the USDA, National Agricultural Statistics Service in partnership with the Michigan Department of Agriculture (MDA) is pleased to make available this Michigan Agricultural Statistics publication. The information contained within, provides a summary of Michigan agriculture in 2005 and an overview of the accomplishments of the department. Although print copies are limited, the publication can be accessed at www.nass.usda.gov under "Statistics by State".

Our mission is to serve agriculture with timely, accurate, and unbiased information. Let us know how our office and enumerator staff can better and more efficiently serve you.

Sincerely,

David D. Kleweno
Director

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**Michigan
Agricultural
Statistics
2005-2006**

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Rank in U.S. agriculture by selected commodities, 2005

Rank	Item	Unit	Quantity	Percent of U.S.	Leading state
			<i>Thousands</i>	<i>Percent</i>	
1	Beans, dry, black	Cwt	1,130	62.7	Michigan
	Beans, dry, cranberry	Cwt	140	86.4	Michigan
	Beans, dry, small red	Cwt	540	59.8	Michigan
	Blueberries	Pounds	66,000	27.7	Michigan
	Cherries, tart	Pounds	208,000	76.9	Michigan
	Cucumbers (for pickles)	Tons	182.4	32.0	Michigan
	Flowering hanging baskets	Number	5,297	12.0	Michigan
	Geraniums (seed and cuttings)	Pots	20,762	21.6	Michigan
	Grapes, Niagara	Tons	31.0	36.2	Michigan
	Impatiens	Flats	2,061	16.6	Michigan
Petunias	Flats	1,556	14.4	Michigan	
2	Beans, dry, all	Cwt	3,910	14.4	North Dakota
	Beans, dry, dark red kidney	Cwt	110	12.0	Minnesota
	Beans, dry, light red kidney	Cwt	240	30.6	Nebraska
	Beans, dry, navy	Cwt	1,310	33.2	North Dakota
	Carrots (fresh market)	Cwt	1,050	4.0	California
	Celery	Cwt	1,144	6.0	California
	Hostas	Pots	1,145	9.0	South Carolina
	Marigolds	Flats	772	12.5	California
	Other potted perennials	Pots	20,176	9.9	California
Squash	Cwt	1,536	18.9	California	
3	Apples	Pounds	780,000	7.9	Washington
	Asparagus	Cwt	228	12.6	California
	Plums	Tons	2.0	2.0	California
	Vegetable type bedding plants	Flats	630	7.8	California
4	Carrots (processing)	Tons	30.8	7.3	Washington
	Cherries, sweet	Tons	27.0	10.8	Washington
	Cucumbers (fresh market)	Cwt	1,224	12.0	Florida
	Grapes, all	Tons	102.7	1.3	California
	Grapes, Concord	Tons	66.5	11.8	Washington
	Sugarbeets	Tons	3,167	11.5	Minnesota
5	Beans, snap (processing)	Tons	62.5	7.6	Wisconsin
	Pumpkins	Cwt	854	7.9	Illinois
6	Maple syrup	Gallons	58	4.7	Vermont
8	Milk	Pounds	6,735,000	3.8	California
10	Potatoes	Cwt	13,920	3.3	Idaho
11	Corn, for grain	Bushels	288,860	2.6	Iowa
	Soybeans	Bushels	77,610	2.5	Iowa
12	Wheat, winter	Bushels	38,940	2.6	Kansas
13	Hogs, as of Dec. 1, 2005	Head	950	1.6	Iowa
20	Hay, all	Tons	3,290	2.2	Texas
22	Cash receipts	Dollars	4,159,538	1.8	California
30	Cattle, as of Jan. 1, 2006	Head	1,040	1.1	Texas

Number of farms and land in farms by economic sales class, 2001-2005 ¹

Year	Economic sales class					Total	Average size of farm
	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000+		
	<i>1,000 farms</i>						
2001	30.7	15.5	3.4	1.9	1.5	53.0	
2002	31.7	15.1	3.2	1.8	1.5	53.3	
2003	31.7	15.1	3.2	1.8	1.5	53.3	
2004	31.4	15.0	3.1	1.9	1.8	53.2	
2005	31.1	15.0	3.2	1.8	1.9	53.0	
	<i>Million acres</i>	<i>Acres</i>					
2001	1.98	2.68	1.70	1.58	2.18	10.12	191
2002	1.99	2.66	1.63	1.59	2.22	10.09	189
2003	2.00	2.60	1.65	1.59	2.25	10.09	189
2004	1.90	2.60	1.60	1.60	2.40	10.10	190
2005	1.90	2.50	1.60	1.60	2.50	10.10	191

¹ USDA estimates of farm number and land in farms are based on the definition "a farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year."

Farm real estate: Values and cash rents, 2002-2006

Year	Farm real estate average value per acre	Cropland	
		Average value per acre	Average cash rent per acre
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2002	2,470	2,150	60
2003	2,680	2,350	60
2004	2,920	2,550	62
2005	3,150	2,750	62
2006	3,500	3,000	65

Farm Income

Net farm income in 2005 rose 10 percent from last year to a record high \$1.34 billion. That includes \$386 million of government payments. The total agriculture output was \$5.16 billion dollars, down 1 percent from 2004. Production expenses were \$2.52 billion in 2005, down 2 percent from the previous year.

Preliminary cash receipts from 2005 marketings of Michigan crops, livestock and livestock products totaled \$4.16 billion, down 2 percent from 2004. Michigan ranked 22 nationally in total cash receipts.

Crop receipts, at \$2.43 billion, were down 2 percent from 2004. Decreases were noted in the market value of fruit crops, vegetables, and nursery/floriculture marketings. Livestock cash receipts were down 2 percent from a year earlier to \$1.73 billion.

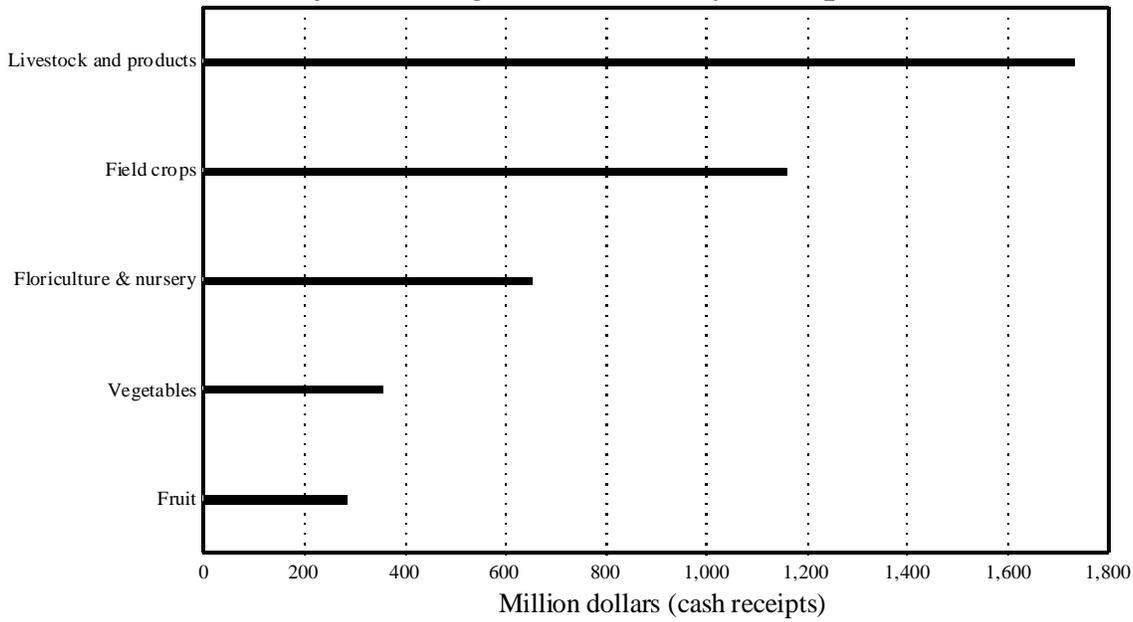
In 2005, the top ten Michigan commodities ranked by cash receipts were milk, soybeans, corn, floriculture, cattle and calves, hogs, nursery, wheat, sugarbeets, and apples.

Government payments, 2001-2005 ¹

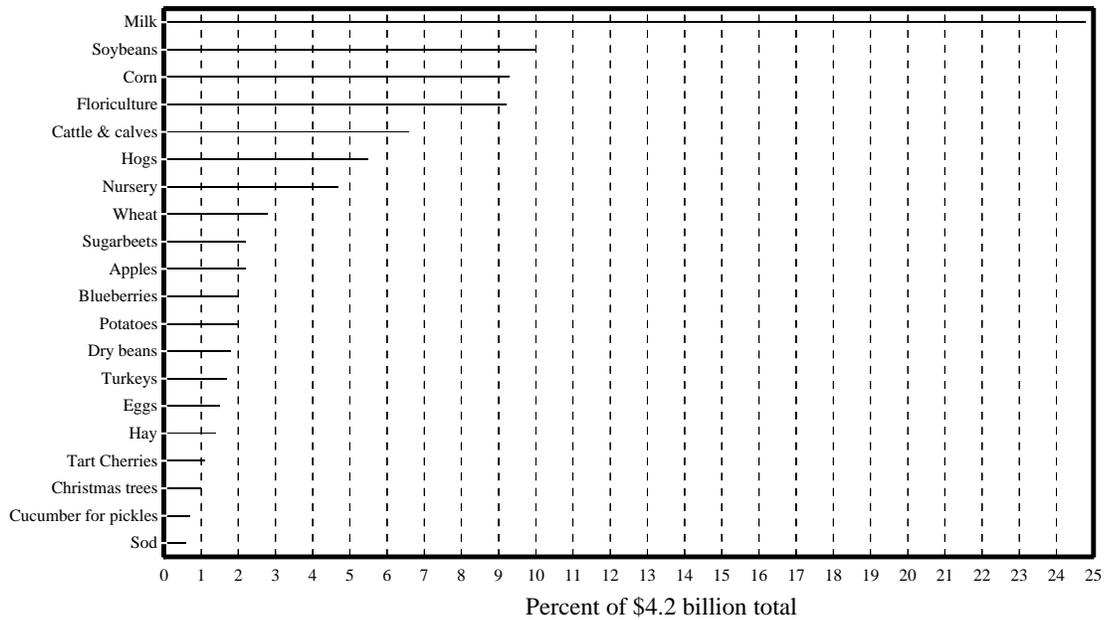
Program	2001	2002	2003	2004	2005
	<i>1,000 dollars</i>				
Conservation programs	24,578	28,459	32,084	32,580	41,848
Production flexibility contract payments	68,405	60,211	-5,402	-104	-2
Direct payments	NA	1,707	122,094	89,513	89,782
Counter-cyclical payments	NA	NA	6,150	5,804	70,987
Loan deficiency payments	101,666	24,391	897	56,377	128,523
Miscellaneous programs	13,609	8,492	129	2,002	6,895
Ad Hoc and emergency programs	144,621	30,285	61,648	20,775	47,848
Milk income loss payments	NA	36,946	37,984	8,442	541
Total	352,879	190,491	255,584	215,389	386,422

¹ Source: U.S. Department of Agriculture, Economic Research Service.

Major Michigan Commodity Groups, 2005



Top 20 Commodities in Cash Receipts, 2005



Value added to the economy by the Michigan agricultural sector 2001-2005 ¹

Item ²	2001	2002	2003	2004	2005
	<i>Million dollars</i>				
Final crop output	1,889.5	2,251.2	2,371.2	2,660.9	2,526.1
Food grains	99.4	94.4	139.0	118.5	119.4
Feed crops	405.8	438.1	500.6	507.3	446.0
Oil crops	293.0	364.0	421.0	377.5	417.6
Fruits and tree nuts	216.0	156.0	250.9	293.1	276.8
Vegetables, potatoes, dry beans	349.6	400.1	425.7	434.7	423.9
All other crops	654.3	712.8	708.9	758.9	748.5
Home consumption	6.6	6.3	5.1	3.0	2.6
Value of inventory adjustment ³	-135.3	79.6	-80.0	167.9	91.3
Final animal output	1,511.2	1,286.2	1,451.4	1,747.7	1,782.6
Meat animals	442.9	371.7	385.1	522.5	506.9
Dairy products	883.1	733.3	795.7	1,022.8	1,029.5
Poultry and eggs	124.8	133.3	170.3	174.5	141.7
Miscellaneous livestock	47.2	51.7	50.8	49.4	49.2
Home consumption	2.4	2.3	5.0	9.1	8.9
Value of inventory adjustment ³	10.7	-6.1	44.7	-30.6	46.4
Services and forestry	757.8	680.0	726.6	801.2	855.0
Machine hire and custom work	59.0	35.8	29.9	29.7	50.8
Forest products sold	10.0	11.9	11.9	11.9	11.9
Other farm income	213.9	123.8	172.3	210.5	210.4
Gross imputed rental value-farm dwellings	474.9	508.4	512.4	549.1	582.0
Final agricultural sector output	4,158.5	4,217.4	4,549.2	5,209.9	5,163.7
less: Purchased inputs	2,433.0	2,304.6	2,462.1	2,562.5	2,520.1
Farm origin	721.6	708.0	780.9	771.7	790.4
Feed purchased	368.2	344.2	410.9	426.9	407.6
Livestock and poultry purchased	55.4	42.0	40.7	53.2	67.7
Seed purchased	297.9	321.9	329.3	291.7	315.2
Manufactured inputs	706.4	680.8	711.1	768.7	770.8
Fertilizers and lime	265.3	232.6	251.8	291.5	304.3
Pesticides	221.1	225.3	236.9	232.1	198.2
Petroleum fuel and oils	160.7	149.9	170.5	167.6	209.5
Electricity	59.3	73.0	51.9	77.6	58.8
Other intermediate expenses	1,005.0	915.8	970.1	1,022.0	958.9
Repair and maintenance of capital items	376.4	297.8	258.5	281.7	251.0
Machine hire and custom work	116.6	72.5	51.8	63.4	74.1
Marketing, storage, and transp. expenses	96.2	120.3	82.9	145.6	141.5
Contract labor	25.0	20.0	32.5	30.4	13.8
Miscellaneous expenses	390.8	405.2	544.4	500.9	478.4
plus: Net government transactions	100.0	-45.8	21.6	9.0	173.0
plus: Direct Government payments	352.9	190.5	255.6	215.4	386.4
less: Motor vehicle reg. and licensing fees	9.9	8.7	7.4	10.3	8.6
less: Property taxes	242.9	227.6	226.6	196.1	204.8
Gross value added	1,825.5	1,867.0	2,108.7	2,656.4	2,816.7
less: Capital consumption	592.8	614.0	635.9	683.0	712.4
Net value added	1,232.7	1,253.0	1,472.8	1,973.3	2,104.2
less: Payments to stakeholders	806.6	834.7	702.4	757.0	766.9
Employee compensation (total hired labor)	553.2	573.8	462.9	545.2	437.6
Net rent received by nonoperator landlords	9.5	24.1	13.5	-19.7	61.2
Real estate and nonreal estate interest	243.9	236.8	226.0	231.5	268.1
Net farm income	426.1	418.3	770.4	1,216.3	1,337.3

¹ Source: U.S. Department of Agriculture, Economic Research Service.

² Final sector output is the gross value of the commodities and services produced within a year. Net value-added is the sector's contribution to the National economy and is the sum of the income from production earned by all factors-of-production. Net farm income is the farm operator's share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development.

³ A positive value of inventory change represents current-year production not sold by December 31. A negative value is an offset to production from prior years included in current-year sales.

Cash receipts by commodity groups and selected commodities 2001-2005 ¹

Item	2001	2002	2003	2004	2005
	<i>1,000 dollars</i>				
Total cash receipts	3,516,213	3,455,308	3,847,879	4,259,204	4,159,538
Total livestock and products	1,498,038	1,289,953	1,401,811	1,769,215	1,727,308
Meat animals	442,850	371,705	385,053	522,510	506,861
Cattle and calves	227,930	204,587	207,722	282,708	272,877
Hogs	212,599	164,324	173,671	236,002	229,852
Sheep and lambs	2,321	2,794	3,660	3,800	4,132
Dairy (milk)	883,120	733,260	795,690	1,022,825	1,029,490
Poultry and eggs	124,843	133,282	170,298	174,472	141,747
Eggs	61,063	63,237	93,613	94,313	61,870
Turkeys	56,700	62,832	68,760	69,560	70,500
Other	7,080	7,213	7,925	10,599	9,377
Miscellaneous livestock	47,225	51,706	50,770	49,408	49,210
Honey	3,694	7,762	6,782	4,965	4,376
Mink pelts	1,445	1,809	1,744	2,045	2,444
Trout	823	663	691	790	793
Other	41,263	41,472	41,553	41,608	41,597
Total crops	2,018,175	2,165,355	2,446,068	2,489,989	2,432,230
Field crops	941,341	1,074,301	1,254,597	1,164,838	1,153,778
Corn	346,105	383,009	437,210	445,745	385,258
Dry beans	24,669	49,450	63,264	64,836	74,991
Hay	56,232	50,337	58,269	57,800	56,634
Soybeans	292,548	363,489	420,346	376,716	416,634
Sugarbeets	112,056	122,393	124,780	90,790	90,790
Wheat	98,841	93,871	138,470	117,925	118,420
Other	10,890	11,752	12,258	11,026	11,051
Vegetables	324,975	350,636	362,437	369,871	348,951
Asparagus	12,516	11,703	19,278	17,468	11,754
Beans, snap	15,614	16,321	11,208	18,660	15,764
Carrots	25,358	19,934	21,907	17,899	16,640
Celery	12,650	14,441	17,641	15,215	18,190
Corn, sweet	11,880	16,800	14,193	13,904	16,160
Cucumbers, fresh	24,200	20,520	20,890	22,274	20,196
Cucumbers, pickles	30,843	30,153	36,180	35,363	30,643
Onions	8,124	9,851	11,065	10,421	10,051
Peppers, green, fresh	8,008	9,600	9,900	13,572	11,040
Potatoes	91,478	93,143	92,929	86,570	82,010
Pumpkins	6,336	13,056	14,308	13,104	11,102
Squash	15,254	22,365	15,314	16,240	18,531
Tomatoes, fresh	13,230	12,810	16,456	26,208	22,792
Tomatoes, processing	8,432	10,458	10,408	8,789	(²)
Other	41,052	49,481	50,760	54,184	64,078
Fruit	216,028	156,030	250,887	293,076	276,751
Apples	79,563	68,008	79,303	96,272	89,733
Blueberries	49,840	52,240	63,105	97,210	83,500
Grapes	10,110	14,760	21,086	14,015	21,810
Peaches	12,503	4,452	7,790	10,274	7,982
Strawberries	4,682	5,228	6,320	4,005	4,878
Sweet cherries	11,092	2,222	10,795	16,311	16,732
Tart cherries	44,412	7,192	57,938	49,861	47,555
Other	3,826	1,928	4,550	5,128	4,561
Miscellaneous crops	20,086	21,610	20,593	14,049	5,195
Floriculture and nursery	515,745	562,778	557,554	648,155	647,555

¹ Source: U.S. Department of Agriculture, Economic Research Service.

² Not published to avoid disclosure of individual operations.

Corn production costs and returns, excluding direct Government payments, 2003-2004

Item	United States		Northern Crescent ¹	
	2003	2004	2003	2004
	<i>Dollars per planted acre</i>			
Gross value of production	319.62	362.35	302.32	320.69
Operating costs:				
Seed	34.83	36.82	35.48	37.18
Fertilizer	43.41	46.69	41.54	44.90
Soil conditioners	0.13	0.14	0.49	0.49
Manure	2.47	2.63	9.95	10.82
Chemicals	26.20	26.76	25.77	26.35
Custom operations	11.17	11.55	12.09	12.43
Fuel, lube, and electricity	23.06	29.29	22.31	26.46
Repairs	14.22	15.35	14.90	16.04
Purchased irrigation water	0.22	0.24	0.00	0.00
Interest on operating capital	0.82	1.31	0.86	1.37
Total, operating costs	156.53	170.78	163.39	176.04
Allocated overhead:				
Hired labor	3.14	3.20	3.72	3.97
Opportunity cost of unpaid labor	26.53	26.98	34.80	35.36
Capital recovery of machinery and equipment	56.67	61.25	60.99	65.68
Opportunity cost of land (rental rate)	89.20	92.14	68.88	71.20
Taxes and insurance	5.54	5.58	5.80	5.81
General farm overhead	12.17	12.41	16.22	16.46
Total, allocated overhead	193.25	201.56	190.41	198.48
Total, costs listed	349.78	372.34	353.80	374.52
Value of production less total costs listed	-30.16	-9.99	-51.48	-53.83
Value of production less operating costs	163.09	191.57	138.93	144.65
Supporting information:				
Yield (bushels per planted acre)	149	169	138	150
Price (dollars per bushel at harvest)	2.13	2.13	2.15	2.10
Enterprise size (planted acres) ²	236	236	138	138
Production practices: ²				
Irrigated (percent)	14	14	4	4
Dryland (percent)	86	86	96	96

¹ Includes NE Minnesota, Wisconsin, Michigan, NE Ohio, Pennsylvania, New York, and New England.

² Developed from survey base year, 2001.

Livestock and products: Marketing year average prices received by farmers, 2001-2005

Marketing year	All hogs per cwt	All beef per cwt ¹	Cows per cwt ²	Steers and heifers per cwt	Milk cows per head ³	Calves per cwt	Market eggs per dozen	All milk wholesale per cwt	Turkeys per pound ⁴
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2001	41.70	58.80	41.70	66.10	1,460	109.00	0.437	15.20	0.35
2002	30.70	54.20	39.00	60.50	1,580	104.00	0.402	12.10	0.35
2003	35.00	63.00	41.60	72.00	1,370	92.50	0.595	12.60	0.36
2004	45.90	68.70	50.40	76.60	1,640	109.00	0.562	16.30	0.37
2005	46.70	73.20	52.10	82.20	1,840	132.00	0.346	15.40	0.40

¹ Combined price for "Cows" and "Steers and Heifers."

² Beef cows and cull dairy cows sold for slaughter.

³ Sold for dairy herd replacement only. Prices published January, April, July, and October.

⁴ Data not available prior to 1999.

Livestock and products: Monthly prices received by farmers, 2005-2006

2004-2005 Marketing years	Beef cattle per cwt ¹	Cows per cwt ²	Steers and heifers per cwt	Milk cows per head ³	Calves per cwt	Market eggs per dozen	All milk wholesale per cwt
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2005							
January	69.30	49.00	78.00	1,700	118.00	0.350	16.40
February	70.30	50.00	79.00		120.00	0.350	15.70
March	73.00	52.00	82.00		125.00	0.320	15.70
April	76.30	56.00	85.00	1,850	130.00	0.260	15.40
May	77.70	56.00	87.00		135.00	0.240	15.00
June	76.30	56.00	85.00		137.00	0.270	14.60
July	72.20	54.00	80.00	1,900	135.00	0.360	15.00
August	70.50	53.00	78.00		134.00	0.250	15.30
September	71.60	52.00	80.00		135.00	0.500	15.50
October	73.10	50.00	83.00	1,900	136.00	0.290	15.90
November	73.50	49.00	84.00		138.00	0.450	15.60
December	75.20	50.00	86.00		138.00	0.550	15.10
2006							
January	75.90	50.00	87.00	2,000	138.00	0.360	14.90
February	74.50	50.00	85.00		140.00	0.280	14.20
March	73.40	51.00	83.00		140.00	0.460	13.30
April	71.30	51.00	80.00	2,000	140.00	0.270	12.40
May	70.30	50.00	79.00		138.00	0.220	12.20
June	71.00	50.00	80.00		134.00	0.360	12.20
July							
August							
September							
October							
November							
December							

¹ Combined price for "Cows" and "Steers and Heifers."

² Beef cows and cull dairy cows sold for slaughter.

³ Sold for dairy herd replacement only. Prices published January, April, July, and October.

Dry edible beans: Percent of sales by month, 2000-2005

Month	2000-01	2001-02	2002-03	2003-04	2004-05
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
September	10	5	12	25	31
October	23	13	27	14	20
November	14	23	16	18	4
December	28	18	4	8	5
January	10	11	4	4	3
February	4	9	2	4	5
March	5	7	8	6	5
April	1	4	2	3	3
May	2	2		10	1
June	1	2	3	3	2
July	1	1	4	3	2
August	1	5	18	2	19

Corn: Percent of sales by month, 2000-2005

Month	2000-01	2001-02	2002-03	2003-04	2004-05
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
October	9	9	15	7	11
November	14	27	23	20	21
December	12	8	10	21	12
January	12	10	14	13	11
February	7	4	8	8	7
March	7	3	6	6	5
April	6	5	6	5	4
May	4	3	6	3	5
June	5	5	3	5	7
July	11	10	4	4	6
August	7	9	3	4	6
September	6	7	2	4	5

Hay: Percent of sales by month, 2000-2005

Month	2000-01	2001-02	2002-03	2003-04	2004-05
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
June	12	18	16	13	14
July	12	17	13	12	12
August	8	16	8	11	9
September	5	6	5	8	6
October	7	6	7	7	6
November	10	7	8	8	8
December	12	6	11	8	9
January	8	6	9	8	10
February	9	6	9	8	9
March	8	4	6	7	7
April	6	4	5	6	6
May	3	4	3	4	4

Oats: Percent of sales by month, 2000-2005

Month	2000-01	2001-02	2002-03	2003-04	2004-05
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
July	9	19	16	9	2
August	37	19	50	55	28
September	6	4	7	8	32
October	3	3	5	6	3
November	4	2	1	2	2
December	4	6	2	2	4
January	9	5	2	2	3
February	8	2	1	2	4
March	4	28	5	5	4
April	3	2	4	5	5
May	4	6	6	1	4
June	9	4	1	3	9

Soybeans: Percent of sales by month, 2000-2005

Month	2000-01	2001-02	2002-03	2003-04	2004-05
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
September	6	2	5	3	5
October	25	25	30	40	20
November	11	20	9	7	16
December	9	6	9	11	7
January	14	9	10	11	7
February	6	4	9	6	10
March	5	6	5	6	8
April	7	2	7	4	5
May	8	2	5	2	5
June	5	7	6	3	11
July	3	9	3	5	3
August	1	8	2	2	3

Wheat: Percent of sales by month, 2000-2005

Month	2000-01	2001-02	2002-03	2003-04	2004-05
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
July	32	50	49	42	41
August	15	18	19	33	18
September	12	7	8	5	10
October	6	4	6	3	4
November	1	2	1	3	4
December	3	4	1	3	3
January	11	4	4	5	4
February	6	3	2	3	8
March	5	1	1	3	4
April	5	4	2		2
May	2	1	2		1
June	2	2	5		1

Crops: Marketing year average prices received by farmers, 2001-2005 ¹

Year	Corn per bushel	Winter wheat per bushel	Oats per bushel	Soybeans per bushel	Dry beans per cwt	Navy beans per cwt	Fall potatoes per cwt	All hay per ton	Alfalfa hay per ton
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2001	1.97	2.43	1.80	4.47	24.60	NA	7.65	70.50	73.50
2002	2.34	3.28	1.80	5.62	15.30	NA	7.80	84.50	86.50
2003	2.37	3.25	1.65	7.30	19.30	NA	7.05	93.00	97.00
2004	1.97	3.01	1.72	5.72	22.50	NA	6.95	94.50	97.50
2005	1.70	3.15	1.90	5.55	19.20	NA	7.65	88.50	92.00

¹ Marketing year average prices received by farmers are based on monthly prices weighted by monthly marketings during specific periods. Prices do not include allowance for CCC loans outstanding, purchases by the government, or deficiency payments.

Crops: Monthly prices received by farmers, 2005-2006

2004-2005 Marketing years	Corn per bushel	Winter wheat per bushel	Oats per bushel	Soybeans per bushel	Dry beans per cwt	Navy beans per cwt	Fall potatoes per cwt	All hay per ton	Alfalfa hay per ton
	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
2004									
June								84.00	90.00
July		3.05	1.66				7.35	84.00	90.00
August		3.04	1.55				5.80	95.00	95.00
September		3.06	1.60	5.83	22.00	22.80	5.50	89.00	90.00
October	2.13	2.91	1.49	5.41	23.60	24.60	5.80	98.00	99.00
November	1.93	2.79	1.96	5.37	23.70	24.80	6.80	104.00	105.00
December	1.88	2.80	2.10	5.44	23.60	24.80	6.95	99.00	100.00
2005									
January	2.00	2.79	2.21	5.38	27.10	26.10	7.15	104.00	105.00
February	1.86	2.95	2.15	5.31	22.30	23.15	7.50	97.00	100.00
March	1.94	3.21	2.23	6.06	23.50	25.60	7.95	96.00	100.00
April	1.88	3.09	2.12	5.97	23.50	25.90	8.75	99.00	100.00
May	1.93	3.00	2.01	6.04	25.20	23.90	8.75	93.00	95.00
June	2.00	3.03	1.65	6.55	23.50	24.30	(¹)		
July	2.17			6.81	20.40	21.10			
August	2.03			6.27	20.60	22.70			
September	1.83								
2005									
June								78.00	85.00
July		3.18	2.06				8.30	77.00	80.00
August		3.06	1.75				6.10	90.00	90.00
September		2.94	1.81	5.81	19.30	19.50	5.80	94.00	95.00
October	1.71	2.99	1.88	5.78	19.10	19.20	6.90	94.00	95.00
November	1.62	2.91	1.81	5.62	18.60	18.60	7.40	94.00	95.00
December	1.66	3.00	2.12	5.67	20.30	18.50	7.90	94.00	95.00
2006									
January	1.85	3.23	1.82	5.93	19.80	18.40	8.50	99.00	100.00
February	1.93	3.24	1.89	5.81	20.00	19.10	8.65	102.00	105.00
March	1.95	3.40	1.94	5.61	22.10	19.10	8.80	101.00	105.00
April	2.04	3.23	2.01	5.64	21.90	19.20	9.95	104.00	105.00
May	2.16	3.39	2.00	5.72	20.80	19.00	10.90	99.00	100.00
June	2.11	3.14	2.43	5.70	19.60	18.70	(¹)	89.00	95.00
July									
August									
September									

¹ Insufficient sales to establish a price.

² Price not published to avoid disclosure of individual firms.

Prices paid by farmers, 2002-2006 ¹

Item	Unit	2002	2003	2004	2005	2006
		<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
Dairy feed, 16% protein ²	Ton	184	190	216	188	216
Hog concentrate, 38-42% protein ²	Ton	298	313	393	332	342
Soybean meal, 44% protein ²	Cwt	11.50	11.70	17.40	11.90	13.10
Gasoline, unleaded, bulk ²	Gallon	1.40	1.64	1.76	2.21	2.59
Diesel fuel ²	Gallon	1.00	1.28	1.32	1.97	2.29
Tractor, 110-129 hp ³	Each	63,700	63,800	65,700	68,500	70,900
Tractor, 200-280 hp, 4-wd ³	Each	132,000	133,000	141,000	142,000	150,000
Planter, row crop, 8-row ³	Each	29,000	30,000	32,000	31,400	34,100
Grain drill, press, 23-25 openers ³	Each	23,100	20,300	22,600	25,200	25,200
Combine, self-prop. w/ grain head, large cap. ³	Each	156,000	159,000	180,000	192,000	201,000
Ammonium nitrate ⁴	Ton	180	224	243	269	427
Muriate of potash 60-62% K ₂ O ⁴	Ton	161	162	178	242	271
Superphosphate, 44-46% P ₂ O ₅ ⁴	Ton	215	238	261	295	315
Anhydrous ammonia ⁴	Ton	254	368	387	429	543
Atrazine, 4#/gallon ³	Gallon	12.20	12.30	12.20	12.40	12.10
Roundup, 4#/gallon EC ³	Gallon	43.50	43.30	39.70	33.80	29.30
Harness, Surpass, 6.4-7#/gallon EC ³	Gallon	68.10	68.20	71.40	67.60	68.90
Dual, 8#/gallon EC ³	Gallon	99.00	104.00	106.00	108.00	107.00
Captan, 50% WP ³	Pound	3.76	3.50	3.52	3.65	3.87
Ziram, 76% WP ³	Pound	2.82	2.70	2.67	2.86	2.88
Guthion, 50% WP ³	Pound	10.60	10.60	10.70	10.80	11.40
Imidan, Prolate, 50% WP ³	Pound	7.30	7.40	7.45	8.32	8.44

EC=Emulsifiable concentrate. WP=Wettable powder.

¹ Regional and U.S. data only.

² Lake States region: Michigan, Minnesota, and Wisconsin.

³ United States.

⁴ North Central region: Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin.

Farm production expenses, 2001-2005

Item	2001	2002	2003	2004	2005
	<i>Million dollars</i>				
Feed purchased	368.2	344.2	410.9	426.9	407.6
Livestock and poultry purchased	55.4	42.0	40.7	53.2	67.7
Seed purchased	297.9	321.9	329.3	291.7	315.2
Fertilizers and lime	265.3	232.6	251.8	291.5	304.3
Pesticides	221.1	225.3	236.9	232.1	198.2
Petroleum fuel and oils	160.7	149.9	170.5	167.6	209.5
Electricity	59.3	73.0	51.9	77.6	58.8
Repair and maintenance of capital items	376.4	297.8	258.5	281.7	251.0
Machine hire and custom work	116.6	72.5	51.8	63.4	74.1
Contract and hired labor expenses	578.2	593.7	495.4	575.6	451.4
Marketing, storage, and transportation expenses	96.2	120.3	82.9	145.6	141.5
Capital consumption	592.8	614.0	635.9	683.0	712.4
Real estate and nonreal estate interest	243.9	236.8	226.0	231.5	268.1
Property taxes	242.9	227.6	226.6	196.1	204.8
Net rent received by nonoperator landlords	9.5	24.1	13.5	-19.7	61.2
Miscellaneous expenses	390.8	405.2	544.4	500.9	478.4
Total production expenses	4,075.4	3,980.9	4,027.0	4,198.6	4,204.2

Farm Labor

Hired farm workers: Annual average wage rates, 2001-2005

Year	All hired workers	Field workers	Field and livestock workers
	<i>Dollars per hour</i>	<i>Dollars per hour</i>	<i>Dollars per hour</i>
2001	8.96	8.15	8.18
2002	9.62	8.62	8.66
2003	9.74	8.42	8.86
2004	9.40	8.32	8.65
2005	9.79	8.56	8.88

Agricultural Exports

Michigan ranked twenty-first in agricultural exports for fiscal year 2005. The table below shows the value of agricultural exports by commodity group. The data are calculated annually by commodity based on each State's share of the U.S. agricultural

production. The top six commodities accounted for approximately 80 percent of the State's agricultural exports. The total value of agricultural exports from Michigan in 2005 was estimated at \$961 million.

Michigan agricultural exports: Fiscal year 2005 ¹

Commodity	Value	Percent of total	Rank in U.S.
	<i>Million dollars</i>	<i>Percent</i>	<i>Number</i>
Soybeans and products	222.4	23.1	12
Feed grains and products	162.6	16.9	12
Vegetables and preparations	152.4	15.9	8
Fruits and preparations	85.6	8.9	5
Other ²	84.1	8.8	14
Dairy products	66.3	6.9	8
Wheat and products	59.8	6.2	27
Live animals and meat, excluding poultry	34.3	3.6	19
Hides and skins	27.1	2.8	14
Feeds and fodders	26.0	2.7	22
Poultry and products	17.8	1.9	25
Seeds	16.2	1.7	15
Fats, oils, and greases	6.2	0.6	15
Total	960.7		21

¹ Source: U.S. Department of Agriculture, Economic Research Service, www.ers.usda.gov/data/fatus.

² Sugar and tropical products, minor oilseeds, essential oils, beverages other than juice, nursery and greenhouse, wine, and miscellaneous vegetable products.

Michigan agricultural exports: Top 10 destinations, 2004-2005 ¹

Country	2004	2005
	<i>Thousand dollars</i>	<i>Thousand dollars</i>
Canada	188,492	190,213
Mexico	12,198	18,143
Japan	9,660	8,167
Italy	3,396	4,072
Austria	6,357	3,365
Ukraine	3,183	2,808
United Kingdom	1,716	2,111
Guatemala	961	1,662
Australia	261	1,288
Pakistan	52	1,269

¹ Source: U.S. Department of Commerce, International Trade Administration, www.ita.doc.gov.

Agricultural Chemical Usage

The 2005 chemical use summaries for fruit and field crops provide pesticide use data on 5 Michigan fruit crops, corn, oats, and potatoes. Fruit chemical use statistics are published every other year, alternating with vegetable chemical use statistics. Information is provided from a survey funded by the USDA Pesticide Data Program to provide reliable pesticide use statistics and to enhance the quality of information on pesticide residues in food. This data series addresses the increased public interest in agricultural chemical use and provides the means for government agencies to

respond effectively to food safety and water quality issues. The entire series of chemical usage statistics since 1990 for Michigan and the U.S. can be found on the NASS website at www.nass.usda.gov. A list of associated trade names is provided following the chemical application tables as an aid in reviewing the data. The list does not imply a recommendation for any specific trade name.

Apples: Agricultural chemical applications, 2005¹

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 lbs</i>
Herbicides					
2,4-D, dimeth. salt	6	1.5	0.71	1.04	2.7
Diuron	9	1.1	1.40	1.49	5.5
Glyphosate iso. salt	25	1.2	0.73	0.90	9.0
Oryzalin	(²)	1.0	2.09	2.09	0.2
Paraquat	7	1.0	0.75	0.75	2.0
Simazine	5	1.1	1.36	1.48	3.1
Terbacil	3	1.0	0.49	0.50	0.6
Insecticides					
Abamectin	6	1.0	0.01	0.01	(³)
Acetamiprid	20	1.5	0.05	0.08	0.6
Azinphos-methyl	80	3.1	0.73	2.29	74.3
Benzoic acid	19	1.6	0.17	0.28	2.2
Bt subsp. kurstaki	7	1.4	(⁴)	(⁴)	(³)
Carbaryl	29	1.4	0.99	1.43	16.9
Chlorpyrifos	63	1.2	0.97	1.17	29.7
Clofentezine	2	1.0	0.13	0.13	0.1
Cyd-X Granulo. Viru	12	2.5	(⁵)	(⁵)	(⁵)
Dimethoate	2	1.1	0.72	0.79	0.8
Endosulfan	6	2.2	1.44	3.19	8.2
Esfenvalerate	39	1.6	0.04	0.07	1.0
Etoxazole	27	1.1	0.08	0.09	1.0
Fenbutatin-oxide	2	1.0	0.68	0.68	0.6
Fenpropathrin	20	1.4	0.26	0.36	2.9
Fenpyroximate	3	1.0	0.04	0.04	(³)
Hexythiazox	2	1.0	0.11	0.11	0.1
Imidacloprid	24	1.6	0.05	0.08	0.8
Lambda-cyhalothrin	5	1.3	0.04	0.05	0.1
Methomyl	12	2.0	0.81	1.64	7.7
Novaluron	34	2.3	0.11	0.26	3.6
Permethrin	10	1.3	0.15	0.20	0.8
Petroleum distillate	11	1.2	18.79	22.64	98.0
Phosmet	57	2.5	1.52	3.82	88.6
Pyridaben	36	1.1	0.24	0.27	3.9
Spinosad	14	1.1	0.11	0.13	0.7
Thiacloprid	31	1.6	0.13	0.22	2.7
Thiamethoxam	3	1.0	0.08	0.08	0.1

See footnote(s) at end of table.

--continued

Apples: Agricultural chemical applications, 2005 ¹ (continued)

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 lbs</i>
Fungicides					
Bacillus subtilis	3	1.2	(⁵)	(⁵)	(⁵)
Basic copper sulfate	4	1.2	1.20	1.41	2.5
Butanone	7	2.5	0.06	0.14	0.4
Calcium polysulfide	1	1.3	10.41	13.88	3.4
Captan	79	4.3	1.84	7.92	254.1
Copper hydroxide	11	1.3	1.29	1.62	7.3
Copper oxychlo. sul.	1	1.0	3.00	3.00	1.1
Copper oxychloride	3	1.0	3.48	3.48	4.3
Copper sulfate	3	1.0	1.10	1.12	1.1
Cyprodinil	8	1.8	0.09	0.16	0.5
Fenarimol	7	2.8	0.05	0.15	0.4
Kresoxim-methyl	23	1.9	0.11	0.21	1.9
Mancozeb	71	4.4	2.75	12.16	348.2
Metiram	21	3.7	2.76	10.11	85.4
Myclobutanil	30	2.3	0.09	0.22	2.7
Oxytetracycline	8	1.7	0.21	0.36	1.2
Pyrimethanil	7	1.3	0.26	0.32	1.0
Streptomycin	29	1.8	0.17	0.29	3.4
Streptomycin sulfate	5	2.1	0.26	0.56	1.0
Sulfur	19	4.1	4.03	16.64	127.5
Thiophanate-methyl	12	2.1	0.28	0.60	2.8
Thiram	10	3.2	2.07	6.53	26.2
Triadimefon	17	1.8	0.14	0.26	1.8
Trifloxystrobin	40	2.0	0.05	0.11	1.7
Ziram	35	2.4	2.70	6.36	89.7
Other chemicals					
Benzyladenine	9	1.1	0.04	0.04	0.1
Butenic acid hydro.	4	1.1	0.05	0.05	0.1
Ethephon	(²)	1.0	0.45	0.46	(³)
Gibberellins A4A7	2	1.4	0.01	0.02	(³)
NAA	20	1.2	0.02	0.02	0.2
Prohexadione calcium	9	1.9	0.12	0.23	0.8
Spirodiclofen	9	1.0	0.24	0.24	0.9

¹ Bearing acres in 2005 for Michigan were 40,500 acres.

² Area applied is less than 0.5 percent.

³ Total applied is less than 50 lbs.

⁴ Rate per acre is less than 0.0005 lbs.

⁵ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Blueberries: Agricultural chemical applications, 2005 ¹

Agricultural Chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 lbs</i>
Herbicides					
Diuron	22	1.0	1.32	1.34	4.9
Glyphosate iso. salt	17	1.2	0.53	0.61	1.7
Hexazinone	7	1.1	0.63	0.70	0.8
Norflurazon	12	1.0	1.83	1.84	3.8
Paraquat	4	1.1	0.37	0.42	0.3
Simazine	14	1.0	1.48	1.52	3.5
Terbacil	12	1.0	0.53	0.54	1.1
Insecticides					
Azinphos-methyl	58	1.4	0.58	0.84	8.2
Carbaryl	23	1.4	1.57	2.17	8.4
Esfenvalerate	16	1.2	0.05	0.06	0.2
Imidacloprid	8	1.3	0.11	0.14	0.2
Malathion	33	2.2	1.81	3.93	21.6
Methomyl	23	1.3	0.64	0.84	3.3
Phosmet	71	2.1	0.87	1.85	22.0
Tebufenozide	34	1.2	0.23	0.27	1.6
Fungicides					
Azoxystrobin	4	1.2	0.18	0.22	0.1
Boscalid	16	1.3	0.02	0.02	0.1
Calcium polysulfide	5	1.2	4.29	5.07	4.6
Captan	43	2.4	2.14	5.22	37.8
Chlorothalonil	15	1.4	2.22	3.10	7.9
Fenbuconazole	60	2.0	0.09	0.19	1.9
Fosetyl-al	5	1.7	3.92	6.76	6.0
Pyraclostrobin	33	1.8	0.11	0.19	1.1
Thiophanate-methyl	47	1.6	0.70	1.15	9.2
Ziram	40	1.9	2.70	5.10	34.4

¹ Bearing acres in 2005 for Michigan were 16,800 acres.

Cherries, sweet: Agricultural chemical applications, 2005 ¹

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 lbs</i>
Herbicides					
2,4-D, dimeth. salt	10	1.3	0.88	1.14	0.9
Glyphosate iso. salt	31	1.1	0.73	0.78	2.0
Paraquat	10	1.1	0.45	0.51	0.4
Simazine	10	1.0	1.07	1.08	0.9
Insecticides					
Azinphos-methyl	68	1.8	0.52	0.91	5.1
Carbaryl	39	1.3	2.27	3.03	9.6
Endosulfan	2	1.7	0.76	1.26	0.2
Imidacloprid	5	1.4	0.07	0.09	(²)
Permethrin	27	1.9	0.10	0.19	0.4
Thiamethoxam	19	1.3	0.05	0.07	0.1
Fungicides					
Basic copper sulfate	5	1.0	0.54	0.54	0.2
Boscalid	19	1.5	0.01	0.02	(²)
Calcium polysulfide	9	1.7	4.60	7.84	5.8
Captan	20	1.5	1.73	2.60	4.3
Chlorothalonil	71	2.2	2.11	4.68	27.3
Copper hydroxide	6	1.3	1.96	2.56	1.2
Copper oxychloride	5	1.0	1.91	1.91	0.8
Fenbuconazole	48	2.4	0.08	0.20	0.8
Ferbam	5	2.0	1.84	3.61	1.4
Myclobutanil	4	1.3	0.11	0.15	0.1
Phosphorous acid	2	1.1	0.59	0.67	0.1
Propiconazole	20	1.5	0.10	0.15	0.3
Pyraclostrobin	19	1.5	0.00	0.00	(²)
Sulfur	69	3.9	4.84	18.82	106.3
Tebuconazole	47	2.1	0.17	0.37	1.4
Thiophanate-methyl	7	1.3	0.97	1.30	0.8
Ziram	38	1.9	2.32	4.48	13.9
Other chemicals					
Spirodiclofen	3	1.0	0.26	0.26	0.1

¹ Bearing acres in 2005 for Michigan were 8,200 acres.

² Total applied is less than 50 lbs.

Cherries, tart: Agricultural chemical applications, 2005 ¹

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 lbs</i>
Herbicides					
2,4-D, dimeth. salt	11	1.1	0.78	0.86	2.6
Diuron	1	1.1	1.23	1.36	0.5
Glyphosate iso. salt	36	1.1	0.73	0.81	8.0
Paraquat	12	1.1	0.38	0.41	1.3
Simazine	18	1.0	1.28	1.30	6.3
Insecticides					
Azinphos-methyl	61	2.0	0.49	0.98	16.3
Carbaryl	3	1.3	2.30	2.92	2.5
Chlorpyrifos	18	1.2	0.56	0.69	3.4
Clofentezine	4	1.0	0.08	0.08	0.1
Esfenvalerate	20	1.6	0.04	0.06	0.3
Imidacloprid	4	1.0	0.10	0.10	0.1
Lambda-cyhalothrin	14	1.7	0.03	0.05	0.2
Permethrin	11	2.0	0.09	0.18	0.5
Phosmet	57	1.6	1.06	1.73	27.2
Thiamethoxam	3	1.1	0.05	0.06	(²)
Fungicides					
Boscalid	33	1.8	0.01	0.01	0.1
Calcium polysulfide	2	2.2	10.17	22.86	15.0
Captan	21	1.8	1.59	2.90	16.9
Chlorothalonil	76	3.0	1.70	5.15	107.5
Copper hydroxide	8	1.8	1.26	2.25	5.0
Copper sulfate	2	1.0	1.21	1.21	0.5
Dodine	11	1.7	0.67	1.10	3.3
Fenbuconazole	26	1.9	0.08	0.15	1.1
Myclobutanil	6	1.7	0.10	0.16	0.3
Propiconazole	4	1.4	0.10	0.13	0.2
Pyraclostrobin	33	1.8	(³)	0.00	(²)
Sulfur	68	4.2	2.87	11.93	221.1
Tebuconazole	58	2.0	0.13	0.25	4.0
Thiophanate-methyl	2	1.6	0.60	0.98	0.7
Trifloxystrobin	18	1.4	0.05	0.07	0.3
Ziram	3	1.9	2.39	4.65	3.9
Other chemicals					
Ethephon	74	1.1	0.17	0.19	3.8
Gibberellic acid	32	1.4	0.01	0.02	0.1
Spirodiclofen	2	1.0	0.19	0.19	0.1

¹ Bearing acres in 2005 for Michigan were 27,300 acres.

² Total applied is less than 50 lbs.

³ Rate per acre is less than 0.0005 lbs.

Peaches: Agricultural chemical applications, 2005 ¹

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 lbs</i>
Herbicides					
2,4-D, dimeth. salt	7	1.1	0.85	0.91	0.3
Glyphosate iso. salt	18	1.2	0.75	0.89	0.8
Paraquat	22	1.0	0.53	0.55	0.6
Terbacil	8	1.0	0.65	0.66	0.3
Insecticides					
Azinphos-methyl	32	2.5	0.62	1.53	2.5
Carbaryl	26	1.7	2.02	3.44	4.5
Chlorpyrifos	7	1.8	1.44	2.53	0.9
Endosulfan	18	2.1	0.80	1.69	1.5
Esfenvalerate	54	3.0	0.04	0.11	0.3
Imidacloprid	10	1.5	0.05	0.08	(²)
Lambda-cyhalothrin	28	2.3	0.03	0.07	0.1
Methomyl	14	1.4	0.63	0.87	0.6
Permethrin	14	2.2	0.14	0.31	0.2
Phosmet	24	2.3	1.33	3.02	3.6
Thiamethoxam	6	1.0	0.05	0.05	(²)
Fungicides					
Basic copper sulfate	12	1.0	0.65	0.65	0.4
Boscalid	15	1.7	0.01	0.01	(²)
Copper hydroxide	19	1.1	1.75	1.85	1.7
Copper oxychlo. sul.	4	1.0	2.54	2.54	0.5
Copper oxychloride	12	1.0	2.33	2.36	1.5
Dodine	19	2.7	0.41	1.12	1.0
Fenbuconazole	55	2.6	0.09	0.23	0.6
Oxytetracycline	24	2.8	0.15	0.41	0.5
Propiconazole	24	2.1	0.10	0.21	0.2
Sulfur	67	3.8	5.43	20.54	68.6
Tebuconazole	23	2.2	0.14	0.30	0.3
Thiophanate-methyl	3	1.7	0.57	0.94	0.2
Ziram	7	1.5	3.32	5.11	1.8
Other chemicals					
E-8 Dodecenyl acetate	15	1.0	0.00	0.00	(²)
Z-8 Dodecanol	15	1.0	0.00	0.00	(²)
Z-8 Dodecen acetate	15	1.0	0.05	0.05	(²)

¹ Bearing acres in 2005 for Michigan were 5,000 acres.

² Total applied is less than 50 lbs.

Fertilizer applications: Corn, 2005 ¹

Fertilizer	Symbol	Area applied	Applications	Rate per application	Rate per crop year	Total applied
		<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Million pounds</i>
Nitrogen	N	97	2.3	55	128	277.8
Phosphate	P ₂ O ₅	88	1.2	39	45	89.6
Potash	K ₂ O	81	1.2	69	82	148.4

¹ Planted acres in 2005 were 2.25 million acres.

Fertilizer applications: Oats, 2005 ¹

Fertilizer	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Million pounds</i>
Nitrogen	82	1.1	32	35	2.6
Phosphate	72	1.0	43	44	2.8
Potash	77	1.0	49	49	3.4

¹ Planted acres in 2005 were 90,000 acres.

Fertilizer applications: Fall potatoes, 2005 ¹

Fertilizer	Symbol	Area applied	Applications	Rate per application	Rate per crop year	Total applied
		<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>Million pounds</i>
Nitrogen	N	100	6.4	41	264	17.9
Phosphate	P ₂ O ₅	99	2.1	64	135	9.1
Potash	K ₂ O	99	4.0	76	303	20.5

¹ Planted acres in 2005 were 68,000 acres.

Agricultural chemical applications: Corn, 2005 ¹

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Herbicides:					
2,4-D, 2-EHE	2	1.3	0.43	0.55	26
2, 4-D, dimeth. Salt	1	1.0	0.34	0.34	7
Acetochlor	28	1.0	1.83	1.83	1,148
Atrazine	71	1.1	1.12	1.23	1,952
Clopyralid	8	1.0	0.11	0.11	21
Dicamba	2	1.0	0.14	0.14	5
Dicamba, Digly Salt	7	1.0	0.23	0.23	38
Dicamba, Sodium Salt	3	1.0	0.13	0.13	10
Diflufenzopyr-sodium	3	1.0	0.05	0.05	4
Dimethenamid-P	7	1.0	0.75	0.75	116
Flumetsulam	13	1.0	0.04	0.04	11
Glyphosate iso. Salt	33	1.1	0.84	0.94	699
Mesotrione	11	1.0	0.16	0.16	38
Metolachlor	1	1.0	1.16	1.16	28
Nicosulfuron	12	1.0	0.02	0.02	5
Pendimethalin	8	1.0	0.93	0.93	164
Primisulfuron	2	1.0	0.02	0.02	1
Rimsulfuron	8	1.0	0.01	0.01	2
S-Metolachlor	23	1.0	1.32	1.32	676
Simazine	1	1.0	1.18	1.18	39
Insecticides					
Bifenthrin	5	1.0	0.04	0.04	5
Chlorpyrifos	4	1.0	0.93	0.93	90

¹ Planted acres in 2005 were 2.25 million acres.

Agricultural chemical applications: Oats, 2005 ¹

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Herbicides					
2, 4-D, dieth salt	7	1	0.55	0.55	3
2, 4-D, dimeth. Salt	36	1	0.46	0.46	15
MCPA, dimeth salt	5	1	0.36	0.36	2

¹ Planted acres in 2005 were 90,000 acres.

Agricultural chemical applications: Fall potatoes 2005 ¹

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per acre</i>	<i>Pounds per acre</i>	<i>1,000 pounds</i>
Herbicides					
Linuron	60	1.0	0.69	0.69	18
Metribuzin	55	1.1	0.30	0.30	8
Rimsulfuron	24	1.0	0.02	0.02	(²)
S-Metolachlor	75	1.0	1.10	1.10	36
Insecticides					
Carbaryl	(³)	2.3	0.74	1.73	(²)
Cyfluthrin	43	3.5	0.03	0.10	2
Endosulfan	4	1.2	0.62	0.75	1
Esfenvalerate	15	1.4	0.03	0.04	(²)
Imidacloprid	56	1.3	0.11	0.14	3
Permethrin	9	3.5	0.09	0.31	1
Phosmet	(³)	2.0	0.72	1.46	(²)
Thiamethoxam	23	1.0	0.10	0.10	1
Fungicides					
Azoxystrobin	53	2.0	0.11	0.22	5
Chlorothalonil	70	7.5	0.93	6.98	215
Copper hydroxide	6	2.8	0.70	2.00	5
Mancozeb	66	4.5	1.19	5.42	157
Triphenyltin hydrox.	22	1.8	0.11	0.20	2
Other chemicals					
Diquat dibromide	58	1.5	0.31	0.47	12

¹ Planted acres in 2005 were 68,000 acres.

² Total applied is less than 50 lbs.

³ Area applied is less than 0.5 percent

Agricultural chemicals: Common and trade names by class

Herbicides

Common name	Trade name	Common name	Trade name
2, 4-D 2-EHE	WECO MAX, Weedone LV4 Solventless	Linuron	Layby Pro, Linex 4L, Linex 50 DF, Lorox DF
2,4-D dieth sal	Hi-Dep, Weedar 64A	MCPA dimethyl. Salt	Rhomene MCPA Amine, MCP Amine 4
2, 4-D, dimeth. salt	several names	Mesotrione	Callisto, Camix, Lexar Herbicide, Lumax
Acetochlor	Keystone	Metolachlor	Bicep 6L, Bicep II, Dual 8E, Me-Too-Lachlor, Parallel, Stalwart C
Atrazine	several names	Metribuzin	several names
Clopyralid	Stinger 3EC	Nicosulfuron	several names
Dicamba	several names	Norflurazon	Predict, Solicam DF, Zorial Rapid 80
Dicamba Digly Salt	Clarity	Oryzalin	Oryza AG, Oryzalin 4 A.S., Surflan 75WP, Surflan A
Dicamba Sodium Salt	Celebrity Plus, Dicamba SG, Distinct, Yukon Herbicide	Paraquat	several names
Diflufenzopyr-sodium	Celebrity Plus, Distinct	Pendimethalin	several names
Dimethenamid-P	G-Max Lite, Guardsman Max, Outlook	Primisulfuron	NorthStart, Spirit
Diuron	several names	Rimsulfuron	Basis
Flumetsulam	Accent Gold, Hornet WDG, Python WDG, Scorpion III	S-Metolachlor	Dual II Magnum, Dual Magnum
Glyphosate iso.salt	several names	Simazine	several names
Hexazinone	Velpar 90SP, Velpar L 2EC	Terbacil	Sinbar 80WP

Insecticides

Abamectin	several names	Fenpropathrin	Danitol 2.4 EC Spray
Acetamiprid	Assail 70WP, Intruder WSP	Fenpyroximate	FujiMite
Azinphos-methyl	several names	Hexythiazox	Hexygon DF, Onager, Savey 2E (aka Onager), Savey 50 DF, Savey 50 WP
Benzoic acid	Intrepid 2F, Intrepid 80 WSP	Imidacloprid	several names
Bifenthrin	several names	Lambda-cyhalothrin	Silencer (aka Lambda-CY 1EC), Warrior
Bt subsp. kurstaki	several names	Malathion	several names
Carbaryl	several names	Methomyl	Lannate L (1.8 lbs.) Canceled 1998
Chlorpyrifos	several names	Novaluron	Rimon 0.83EC
Clofentezine	Apollo 42%, Apollo SC	Permethrin	several names
Cyd-X Granulo. Virus	CYD-X, Carpovirusine, Virosoft	Petroleum distillate	several names
Cyfluthrin	Bioninsecticide	Phosmet	Imidan 12.5%, Imidan 50-WSB, Imidan 70 WSB WP
Dimethoate	Baythroid 2EC, Renounce 20WP, Tempo SC	Pyridaben	Nexter, Pyramite, Sanmite 75 WP
Endosulfan	Ultra	Spinosad	several names
Esfenvalerate	several names	Tebufenozide	Confirm 2F
Etoxazole	Asana, Asana XL	Thiacloprid	Calypso
Fenbutatin-oxide	TetraSan 5 WDG, Zeal (aka Secure)	Thiamethoxam	Actara, Centric, Platinum
	Vendex 4L, Vendex 50WP		

Agricultural chemicals: Common and trade names by class

Fungicides

Common name	Trade name	Common name	Trade name
Azoxystrobin	Amistar, Quadris	Mancozeb	several names
Bacillus subtilis	Serenade Biofungicide WP, Serenade MAX, Serenade WP Biofungicide	Metiram	Polyram 80 DF, Polyram 80WP
Basic copper sulfate	several names	Myclobutanil	Laredo EC, Nova 40W, RH-144228, Rally 40W
Boscalid	Endura 70WG, Pristine	Oxytetracycline	Mycoshield, Mycoshield WP
Butanone	Triadimefon 50% DF	Phosphorous acid	several names
Calcium polysulfide	several names	Propiconazole	Bumper 41.8 EC, Orbit 3.6EC, Orbit 45 WP, PropiMax EC, Tilt
Captan	several names	Pyraclostrobin	Cabrio EG, Headline, Pristine
Chlorothalonil	several names	Pyrimethanil	SCALA SC
Copper hydroxide	several names	Streptomycin	Agri-Mycin 17, Agri-Strep 17WP, Agri-Strep 500 50WP, Streptomycin 3000 Dust
Copper oxychlo. sul.	several names	Streptomycin sulfate	Firewall 17 WP, Flame Out, Streptomycin sulfate
Copper oxychloride	C O C WP, C-O-C-S WDG, CSC Copper Sulfur Dust	Sulfur	several names
Copper sulfate	Basicop, Copper Sulfate, Copper Sulfate Powdered Bluestone	Tebuconazole	Elite 45 DF
Cyprodinil	Switch 62.5WG, Vanguard WG	Thiophanate-methyl	several names
Dodine	Cyprex 65-W, Dodine 65W, Syllit 65W, Syllit FL	Thiram	Thiram 65WP, Thiram 75WP
Fenarimol	Rubigan A.S., Rubigan EC	Triadimefon	several names
Fenbuconazole	Enable 2F, Indar 75 WSP	Trifloxystrobin	Flint, Gem
Ferbam	Carbamate 76WDG, Ferbam Granuflo	Triphenyltin hydrox.	Agri Tin, Super Tin 80WP, Super Tin 4L
Fosetyl-al	Aliette 80WP, Aliette WDG	Ziram	Ziram 76 DF, Ziram 87.3 WP, Ziram F-4, Ziram Granuflo
Kresoxim-methyl	Sovran		

Other

Benzyladenine	several names	Gibberellins A4A7	several names
Butenoic Acid Hydro.	ReTain	NAA	several names
Diquat dibromide	Diquat, Reglone, Roundup Weed & Grass Killer Concentrate	Prohexadione calcium	Apogee PGR
E-8-Dodecenyl acetat	several names	Spirodiclofen	Envidor 2 SC
Ethephon	Ethephon 2, Ethephon 6, Ethrel Plant Regulator 2EC	Z-8-Dodecanol	several names
Gibberellic acid	several names	Z-8-Dodecen acetate	several names

Commercial fertilizer consumption: 2001-2005 ¹

Item	Year ending June 30				
	2001	2002	2003	2004	2005
	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>	<i>Short tons</i>
Primary plant nutrients					
Total N	238,810	240,680	238,296	264,850	253,433
N in multi-nutrients	55,076	55,048	60,449	60,405	57,559
Total P ₂ O ₅	85,873	84,734	85,485	94,352	82,885
P ₂ O ₅ in multi-nutrients	83,794	82,377	83,193	92,225	81,187
Total K ₂ O	184,568	189,200	189,463	210,479	189,432
K ₂ O in multi-nutrients	47,563	41,924	45,298	46,989	41,926
Total plant nutrients	509,251	514,615	513,243	569,680	525,751
Average analysis	42.6	43.1	40.1	41.1	37.7
Total nutrients in multi-nutrients	186,433	179,349	188,940	199,620	180,673
Selected single-nutrient materials					
Ammonium nitrate	6,287	5,405	7,856	6,619	7,501
Anhydrous ammonia	50,984	52,766	39,235	43,551	50,071
Nitrogen solutions	288,641	284,355	285,787	323,712	301,868
Urea	110,001	107,305	107,854	132,493	108,090
Ammonium sulfate	22,164	23,569	25,294	30,376	36,660
Concentrated superphosphate	3,945	4,984	4,515	4,139	3,716
Potassium chloride	221,427	236,720	231,668	259,011	234,700
Multiple-nutrient fertilizers					
N-P-K	366,861	334,670	265,924	294,691	227,081
N-P	122,840	129,900	133,062	142,136	134,719
N-K	24,353	27,096	34,853	33,024	44,437
P-K	4,771	3,831	2,828	3,129	2,926
Leading multiple-nutrient grades					
18-46-0	33,232	36,672	37,149	35,938	38,902
10-34-0	40,775	44,303	46,717	50,860	37,026
11-52-0	26,571	24,636	25,865	34,428	35,776
19-19-19	13,035	13,989	12,709	16,547	13,756
28-3-3	4,517	7,761	7,654	7,357	6,951
12-12-12	7,403	7,528	6,641	7,916	6,450
Fertilizer consumption by classes					
Dry bulk single-nutrient	382,845	392,966	443,887	472,774	430,495
Dry bagged single-nutrient	14,862	23,385	40,127	35,943	19,815
Fluid single-nutrient	343,883	339,295	343,115	373,002	362,722
Dry bulk multiple-nutrient	243,576	223,668	231,005	248,576	202,878
Dry bagged multiple-nutrient	188,375	187,396	132,037	150,598	137,291
Fluid multiple-nutrient	86,874	84,433	73,625	73,805	68,993
Organics, secondary and micronutrients	24,729	31,883	84,679	60,845	58,519
Total	1,285,144	1,283,026	1,348,475	1,415,544	1,280,715

¹ Source: The Association of American Plant Food Control Officials

Field Crops

Growing Season Weather Summary

Dr. Jeff Andresen, Michigan State University

The 2005 growing season in Michigan was generally characterized as much warmer than normal, and, depending on location, by precipitation totals ranging from much below normal to near normal. Fortunately, the preceding winter was wetter than normal over most sections, with as much as 200 percent of normal precipitation recorded in some locations between December and mid-March. The wetter than normal trend led to soil profiles at or near field capacity over most of the State by March, which was a critical factor in determining crop yields. Following colder than normal temperatures during much of March, an upper air ridging pattern developed across the upper midwest during the last week of the month and persisted for much of the first half of April. This resulted in a warm and dry pattern which favored spring tillage activities and some early planting. Upper air troughing and below normal temperatures returned by late April, but given drier than normal conditions, planting continued at a rapid pace into early May.

The upper air troughing pattern continued off and on for much of the month of May, resulting in many sunny, cool, and windy days across the State. The cool temperatures delayed germination and early establishment of crops in many areas. Late spring freezes injured some early planted crops statewide May 3 to 6 and in some northern sections of the state on May 15. During the first week of June, a major change in the upper air ridge pattern across North America resulted in an extended period of above normal temperatures and led to rapid crop growth and development.

Rainfall totals across Michigan from April through the end of June ranged from less than 3 inches in some western sections of lower Michigan to more than 7 inches in the east central Lower Peninsula. Normal precipitation for this period is generally on the order of 8 to 8.5 inches. A stationary front lingering across the region along with ample Gulf of Mexico-origin low-level moisture and several upper air disturbances brought what might truly be

termed, 'million dollar rains' in the form of almost daily showers and thunderstorms from July 17 to 22. Two to four inches of rain fell across most of the State, reducing or ending dryness and crop stress just as the corn crop began entering the critical pollination stage. Upper air ridging and drier than normal weather returned by early August and persisted through much of the remainder of the growing season. Following warmer and drier than normal conditions in August and September, the first killing freeze of the fall occurred later than normal in most sections of the state, from October 7 to 10 in the north, and by the last week of October in the south.

Warmer than normal temperatures persisted with only brief interruptions from early June through October. Mean temperatures for these months generally ranged from 2 to 4 degrees F. above normal, leading to rapid crop development and to a relatively early crop maturation. The early maturation and warm, dry September and October led to rapid grain drydown and to significant savings for growers in terms of improved grain quality and reduced drying costs.

For the 5-month May to September period, precipitation totals ranged from much below normal levels in northern sections of the State to near normal levels in a few locations mainly in central sections of the Lower Peninsula. Mean temperatures for the period were above normal over most areas, reflecting abnormal warmth from June through September.

Crop performance under the warmer and drier than normal conditions was strongly impacted by soil type. Given a general lack of precipitation during much of the growing season, crop water needs were supplied at least in part by water stored in the soil profile following the wetter than normal winter. Without the full soil moisture profile at the beginning of the season, it is likely that crop yields would have been much more adversely impacted by the warm, dry conditions.

Field crops: Acres harvested and value of production, 2001-2005

Item	Unit	2001	2002	2003	2004	2005
Acres harvested	1,000 acres	6,378	6,386	6,418	6,372	6,478
Value of production	1,000 dollars	1,276,403	1,720,760	1,768,563	1,653,098	1,615,878

Grain storage capacity, December 1, 2001-2005

Year	Off farm		On farm capacity
	Facilities	Rated capacity	
	<i>Number</i>	<i>Million bushels</i>	<i>Million bushels</i>
2001	245	146	240
2002	235	148	240
2003	220	145	240
2004	215	150	250
2005	215	148	250

Field crops: Record highs and lows

Crop	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Barley						
Harvested acres	1,000 acres	303	1932	11	2005	1866
Yield per acre	Bushels	68.0	1985	13.5	1933	
Production	1,000 bu	8,400	1918	517	2005	
Dry Edible beans						
Harvested acres	1,000 acres	690	1930	130	2001	1909
Yield per acre	Pounds	2,100	1999	320	1917	
Production	1,000 cwt	8,585	1963	780	2001	
Corn for grain						
Harvested acres	1,000 acres	2,800	1981	480	1866	1866
Yield per acre	Bushels	143.0	2005	21.5	1917	
Production	1,000 bu	293,180	1982	15,120	1869	
Corn for silage						
Harvested acres	1,000 acres	498	1971	210	2003	1924
Yield per acre	Tons	18.0	2004	4.7	1930	
Production	1,000 tons	5,565	1977	1,542	1930	
Hay, alfalfa						
Harvested acres	1,000 acres	1,444	1950	74	1919	1919
Yield per acre	Tons	4.2	1993	1.1	1934	
Production	1,000 tons	5,040	1985,1986	118	1919	
Hay, all						
Harvested acres	1,000 acres	2,947	1924	780	1866	1866
Yield per acre	Tons	3.8	1993	0.6	1895	
Production	1,000 tons	5,743	1986	1,014	1866	
Oats						
Harvested acres	1,000 acres	1,658	1918	55	2001	1866
Yield per acre	Bushels	70.0	2003	18.5	1921	
Production	1,000 bu	69,388	1946	3,520	2001	
Potatoes						
Harvested acres	1,000 acres	374.0	1895	36.4	1975	1866
Yield per acre	Cwt	330.0	2003	26.0	1887,1916	
Production	1,000 cwt	23,256	1904	3,557	1876	
Soybeans						
Harvested acres	1,000 acres	2,130	2001	1	1930	1924
Yield per acre	Bushels	40.0	1995,1999	8.0	1927	
Production	1,000 bu	78,540	2002	10	1930	
Spearmint						
Harvested acres	1,000 acres	8.7	1954	0.7	1935	1935
Yield per acre	Pounds	50.0	2001,2002	20.0	1965	
Production	1,000 lbs	280	1948	27	1996	
Sugarbeets						
Harvested acres	1,000 acres	190	1999	48	1943,1953	1909
Yield per acre	Tons	21.3	1970,2005	5.5	1916	
Production	1,000 tons	3,534	1999	298	1943	
Wheat, winter						
Harvested acres	1,000 acres	1,515	1953	400	1987	1909
Yield per acre	Bushels	72.0	2000	10.5	1912	
Production	1,000 bu	45,600	1984	7,350	1912	

Barley

Michigan barley growers planted 15,000 acres and harvested 11,000 acres in 2005. Total production was 517,000 bushels, down 16 percent from 2004. The average yield decreased 4 bushels to 47 bushels per acre. Barley planting began in early April. By mid-May,

planting and emergence progressed ahead of the five-year average. In late May, barley was completely emerged. Going into harvest, one-third of the crop was rated good to excellent.

Barley: Acres, yield, production, and value, 2001-2005

Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	15	12	56	672	1.50	1,008
2002	14	13	51	663	1.60	1,061
2003	15	14	56	784	1.70	1,333
2004	14	12	51	612	1.80	1,102
2005	15	11	47	517	1.80	931

¹ Marketing year average.

Corn

There were 2.25 million acres planted to corn in 2005, up 50,000 acres from 2004. Grain corn production was 288.9 million bushels, up 12 percent from 2004; 2.02 million acres were harvested for grain. The record yield of 143 bushels per acre was up 9 bushels from the 2004 crop. Farmers harvested 220,000 acres of corn for silage with an average yield of 17.5 tons per acre.

Planting of corn in Michigan began about April 10, ahead of normal. Dry, warm weather prevailed in April, and planting progress kept about 10 days ahead of average. Planting was virtually complete by the end of May. Despite the early planting, dry and cool weather the first half of May kept emergence progress only at normal. Timely rains the second half of May improved crop emergence. By mid-June, almost all plants were emerged, ahead of average. By the beginning of August, crop growth progress was about two weeks ahead of normal. About 95 percent of the crop had silked by August 1, compared with a 5-year average of 60 percent.

There was very little rainfall in August. This normally would have had a negative influence on potential yields. Since the crop was so far ahead of schedule, however, the weather actually had the positive effect of aiding the field drying. The harvest began in mid-September, two weeks ahead of normal. Nearly 90 percent of the corn had reached maturity by October 1, well ahead of the average 50 percent. By November 1, the harvest of corn for grain in Michigan was three-fourths completed, about two weeks ahead of normal. Combining was virtually complete by mid-November. Yields were excellent except in the western part of the State, where rainfall was short during the critical part of the growing season.

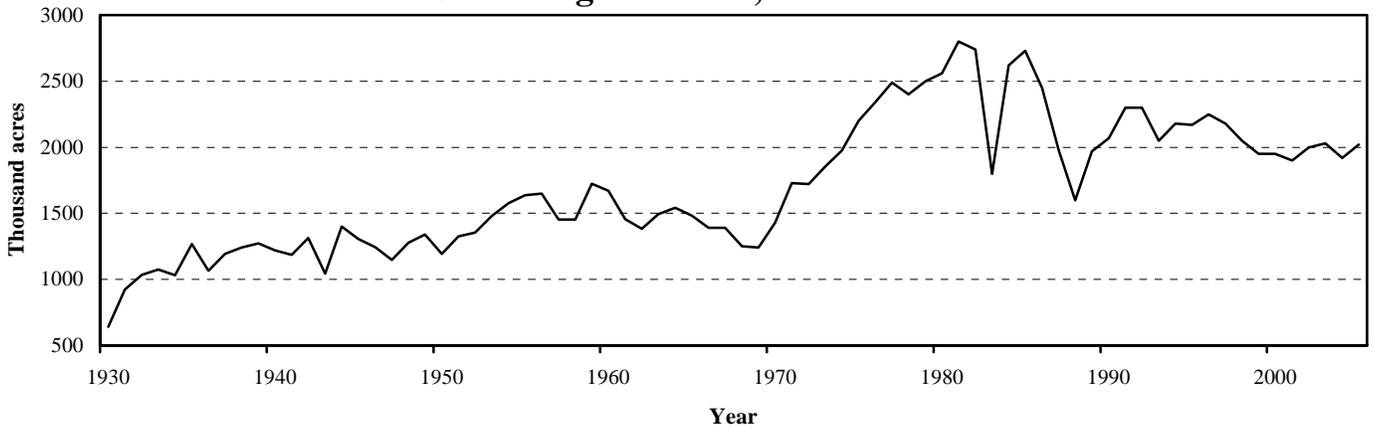
The 2005 corn crop was valued at \$491 million, down 3 percent from 2004. Corn continued to be Michigan's number one crop in value of production. The top three counties in corn production in 2005 were Lenawee, Huron, and Sanilac.

Corn: Acres, yield, production, and value, 2001-2005

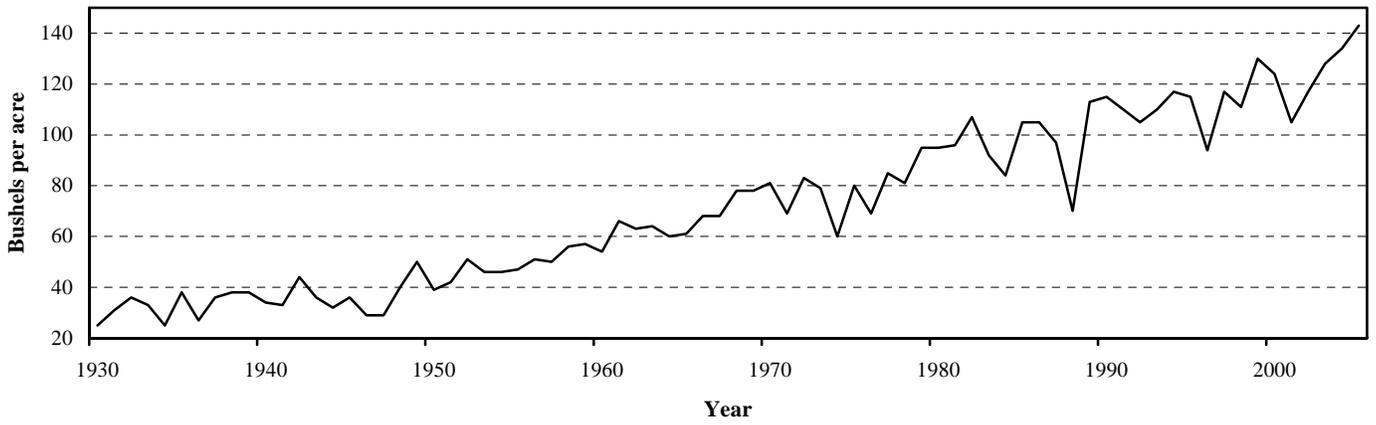
Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
All						
2001	2,200					
2002	2,250					
2003	2,250					
2004	2,200					
2005	2,250					
Grain						
2001		1,900	105	199,500	1.97	393,015
2002		2,000	117	234,000	2.34	547,560
2003		2,030	128	259,840	2.37	615,821
2004		1,920	134	257,280	1.97	506,842
2005		2,020	143	288,860	1.70	491,062
Silage	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>		
2001		280	13.0	3,640		
2002		240	15.0	3,600		
2003		210	16.0	3,360		
2004		265	18.0	4,770		
2005		220	17.5	3,850		

¹ Marketing year average.

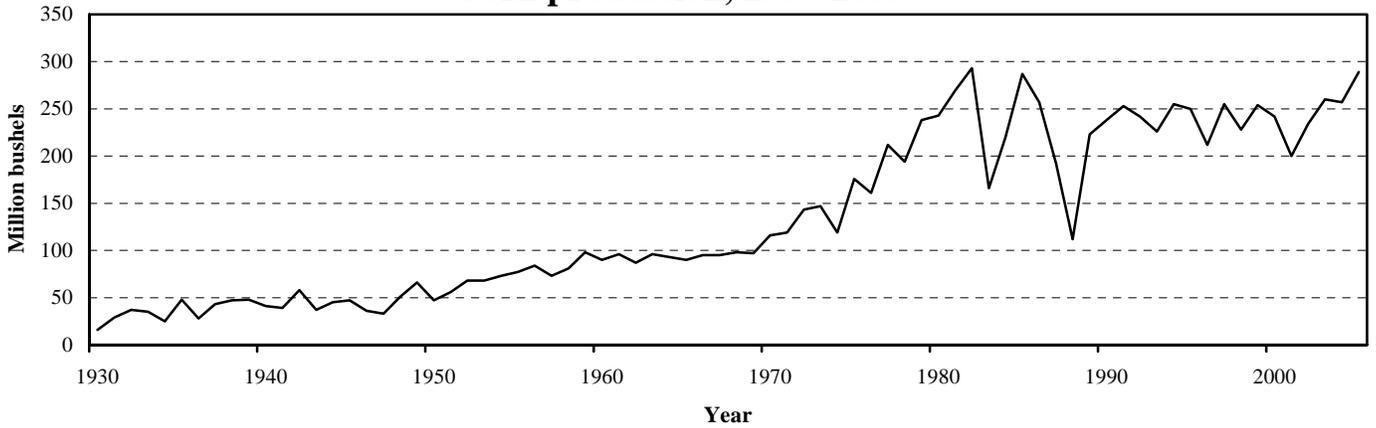
Corn for grain acres, 1930-2005



Corn yield, 1930-2005



Corn production, 1930-2005



Corn for grain: Stocks by quarter, 2001-2005

Crop year	December 1		March 1		June 1		September 1	
	On farm	Off farm						
	<i>1,000 bushels</i>							
2001	120,000	55,700	80,000	46,700	54,000	29,050	16,000	13,600
2002	130,000	59,800	88,000	46,700	40,000	27,600	13,000	9,750
2003	140,000	56,500	77,000	51,300	43,000	34,600	16,000	13,200
2004	140,000	60,600	100,000	48,350	59,000	30,000	23,000	15,900
2005	165,000	71,900	110,000	56,500	65,000	39,700		

Corn: Percentage of acreage planted, 2001-2005

Year	Month and day						
	April		May			June	
	20	30	10	20	30	10	
2001	0	14	62	81	93	100	
2002	0	9	34	54	81	96	
2003	0	11	33	48	83	98	
2004	8	34	61	68	77	90	
2005	17	34	68	87	98	100	
5-year-average	4.9	20.6	51.6	67.4	86.5	96.7	

Corn: Percentage of acreage silked, 2001-2005

Year	Month and day					
	July			August		
	1	10	20	30	10	20
2001	0	2	22	66	91	100
2002	0	0	8	63	88	98
2003	0	0	3	40	86	98
2004	0	1	27	61	74	86
2005	0	7	47	91	97	100
5-year-average	0.0	2.2	21.3	64.1	87.1	96.5

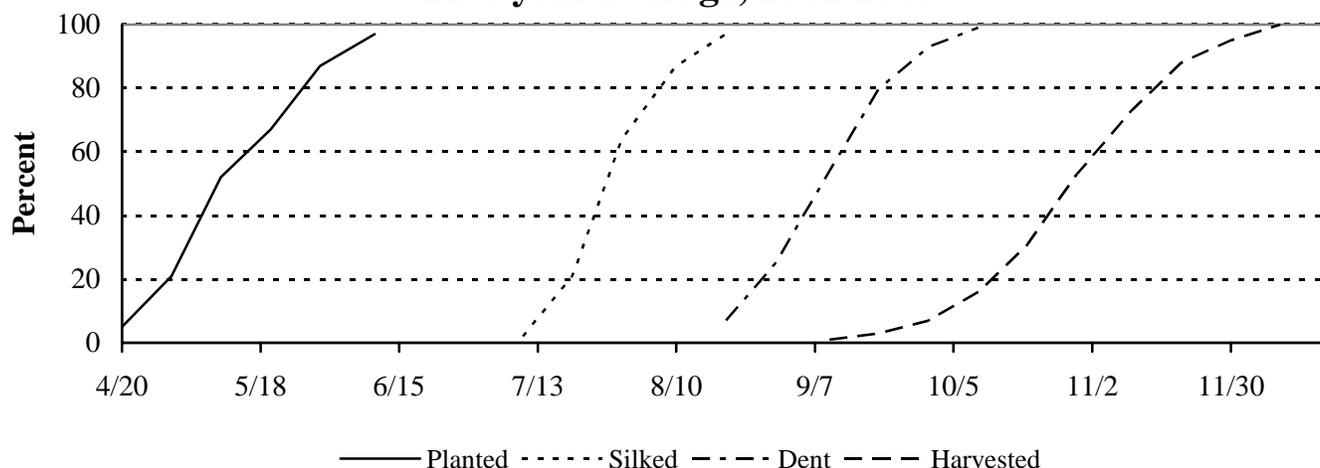
Corn: Percentage of acreage dent stage, 2001-2005

Year	Month and day						
	August			September			October
	10	20	30	10	20	30	10
2001	0	10	25	52	76	93	98
2002	0	2	16	62	96	98	100
2003	0	1	16	40	73	91	99
2004	0	1	11	34	58	82	96
2005	0	20	55	84	97	99	100
5-year-average	0.2	6.9	24.5	54.4	79.8	92.7	98.5

Corn: Percentage of acreage harvested for grain, 2001-2005

Year	Month and day									
	September			October			November			December
	10	20	30	10	20	30	10	20	30	10
2001	0	3	7	14	27	41	62	87	94	100
2002	0	3	8	20	34	63	89	94	97	100
2003	0	0	3	7	19	37	54	78	91	100
2004	0	0	3	13	25	49	68	82	93	100
2005	2	7	14	28	48	75	91	96	99	100
5-year-average	0.5	2.7	7.2	16.3	30.7	52.9	72.9	87.6	95.2	100.0

Corn progress Five-year average, 2001-2005



Dry Edible Beans

The pace of dry bean planting was slower than normal with many farmers replanting due to heavy rains in early June. The main growing area received timely rains throughout most of the growing season. Seventy percent of the crop was rated good to excellent, 24 percent was rated fair, and only 6 percent poor, at the end of September. Harvest began the last week of August for the early planted fields. By mid-September, some later planted fields were sprayed to kill the plants because the bean pods had turned brown, but the vegetative part of the plant was still green. Ninety-five

percent of the crop had been harvested by October 9, about 18 percentage points ahead of normal.

Michigan's 2005 total dry bean production was 3.9 million hundredweight (cwt), which represented 14 percent of U.S. production. Michigan ranked second in dry bean production for 2005. The number one dry bean producer in the nation was North Dakota with 8.7 million cwt, up 82 percent from last year.

Dry edible beans: Acres, yield, production, and value, 2001-2005

Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>Dol/cwt</i>	<i>1,000 dollars</i>
2001	215	130	600	780	24.60	19,188
2002	270	265	1,850	4,903	15.30	75,016
2003	170	165	1,500	2,475	19.30	47,768
2004	190	185	1,700	3,145	22.50	70,763
2005	235	230	1,700	3,910	19.20	75,072

¹ Marketing year average.

Dry edible beans: Acres, yield, and production, by class, 2001-2005

Class and Year	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>
Black				
2001	63,000	52,000	640	335
2002	110,000	108,000	1,880	2,030
2003	45,000	43,000	1,580	680
2004	74,000	73,000	1,770	1,290
2005	65,000	64,000	1,770	1,130
Cranberry				
2001	26,000	12,000	580	70
2002	20,000	19,000	1,530	290
2003	12,000	12,000	1,180	142
2004	9,500	9,000	1,440	130
2005	10,500	9,500	1,470	140
Great Northern				
2001	8,000	3,500	570	20
2002	3,000	3,000	2,000	60
2003	8,000	8,000	1,680	134
2004	1,000	1,000	1,600	16
2005	2,000	1,800	1,660	30
Navy				
2001	65,000	30,000	570	170
2002	85,000	84,000	1,930	1,620
2003	40,000	38,000	1,560	592
2004	55,000	54,000	1,800	970
2005	75,500	74,500	1,760	1,310
Pinto				
2001	7,000	4,500	510	23
2002	9,500	9,500	1,930	183
2003	11,000	10,500	1,430	150
2004	7,000	6,500	1,710	111
2005	18,000	17,500	1,600	280
Red kidney, dark				
2001	9,000	7,000	430	30
2002	8,500	8,000	1,630	130
2003	9,000	9,000	1,330	120
2004	7,000	6,500	1,230	80
2005	8,000	7,700	1,430	110
Red kidney, light				
2001	18,000	11,000	770	85
2002	15,000	14,500	1,790	260
2003	16,000	15,500	1,540	239
2004	15,000	14,500	1,460	212
2005	17,000	16,800	1,430	240
Small, red				
2001	12,000	6,500	420	27
2002	11,000	11,000	1,890	208
2003	19,000	19,000	1,470	280
2004	15,500	15,000	1,740	261
2005	31,000	30,500	1,770	540
Other				
2001	7,000	3,500	570	20
2002	8,000	8,000	1,530	122
2003	10,000	10,000	1,380	138
2004	6,000	5,500	1,360	75
2005	8,000	7,700	1,690	130

Hay and Haylage

Michigan hay production was estimated at 3.29 million tons, up from 3.27 in 2004. Alfalfa and alfalfa mixtures accounted for 85 percent of all dry hay produced. All hay harvested acres were estimated at 1.15 million, up from 1.10 million in 2004. The average all hay yield was 2.86 tons per acre, down 4 percent from last year. Alfalfa stands wintered well, but growth slowed in May due to cool conditions. First cuttings started in early June, but dry conditions

slowed regrowth. Rain in August advanced growth and helped newly seeded fields. Fourth cuttings were completed by November. Alfalfa accounted for 900,000 acres of the total harvested with a yield of 3.1 tons per acre. Other hay accounted for 250,000 acres with a yield of 2.0 tons per acre. Value of the hay crop was \$290.4 million, down 5 percent from 2004.

Hay, haylage, and greenchop: Acres, yield, production, and value, 2001-2005

Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
All dry hay						
2001		1,150	3.14	3,610	70.50	253,510
2002		1,100	3.23	3,551	84.50	297,801
2003		1,050	2.97	3,120	93.00	295,240
2004		1,100	2.97	3,270	94.50	304,525
2005		1,150	2.86	3,290	88.50	290,430
Alfalfa hay						
2001		900	3.40	3,060	73.50	224,910
2002		870	3.50	3,045	86.50	263,393
2003		850	3.20	2,720	97.00	263,840
2004		850	3.20	2,720	97.50	265,200
2005		900	3.10	2,790	92.00	256,680
Alfalfa seedings						
2001	100					
2002	125					
2003	130					
2004	135					
2005	135					
Other hay						
2001		250	2.20	550	52.00	28,600
2002		230	2.20	506	68.00	34,408
2003		200	2.00	400	78.50	31,400
2004		250	2.20	550	71.50	39,325
2005		250	2.00	500	67.50	33,750
All haylage and greenchop						
2001		340	5.82	1,980		
2002		280	6.05	1,694		
2003		270	5.50	1,486		
2004		335	6.03	2,020		
2005		320	6.50	2,080		
Alfalfa haylage and greenchop						
2001		320	6.00	1,920		
2002		260	6.20	1,612		
2003		250	5.60	1,400		
2004		310	6.20	1,922		
2005		300	6.70	2,010		

¹ Marketing year average.

Hay: Stocks on farms, 2002-2006

Year	May 1	December 1
	<i>1,000 tons</i>	<i>1,000 tons</i>
2002	773	2,024
2003	462	1,872
2004	250	1,893
2005	500	1,852
2006	395	

Maple Syrup

Michigan maple syrup production was estimated at 78,000 gallons for the 2006 season, 20,000 gallons above the 2005 output. This was a late season for Michigan maple syrup producers. Once started, the season was good. Producers reported the syrup was high quality, with high sugar content of the sap early in the season. The length of the season was 21 days, compared to 16 days in 2005 and 26 days in 2004. About 59 percent of the syrup produced was medium in color.

Michigan ranked fifth in maple syrup production in 2006, up from sixth last year and produced 5 percent of the total U.S. production. Total taps were 375,000 and the syrup yield was 0.208 gallons per tap. In 2005, Michigan producers sold 48 percent of their syrup retail, 28 percent wholesale, and 24 percent bulk. The average price per gallon for 2005 was \$36.00 compared with \$38.00 in 2004. The value of production for 2005 was \$2.088 million, down from \$3.040 million in 2004.

Maple syrup: Taps, yield, production, price, and value, 2002-2006

Year	Taps	Yield per tap	Production	Price per gallon	Value of production
	<i>1,000</i>	<i>Gallons</i>	<i>1,000 gallons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2002	365	0.205	75	32.50	2,438
2003	360	0.164	59	31.20	1,841
2004	370	0.216	80	38.00	3,040
2005	390	0.149	58	36.00	2,088
2006	375	0.208	78	(¹)	(¹)

¹ Published in June 2007.

Mint

Mint: Acres, yield, production, and value, 2001-2005

Year	Harvested	Yield	Production	Price per pound ¹	Value of production
	<i>1,000 acres</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Peppermint					
2001	1.0	50	50	9.90	495
2002	0.8	50	40	10.00	400
2003	1.1	40	44	11.00	484
2004	1.0	45	45	10.90	491
2005	1.0	35	35	12.00	420
Spearmint					
2001	1.7	50	85	9.80	833
2002	1.6	50	80	9.00	720
2003	1.6	40	64	9.50	608
2004	1.6	45	72	9.30	670
2005	1.6	35	56	9.50	532

¹ Marketing year average.

Oats

Oat acreage increased in Michigan during 2005. Growers planted 90,000 acres of oats in 2005, compared with 80,000 the year before. Harvested acres, at 75,000, were up 10,000 from last year. The 2005 oat production was 4.58 million bushels, up 4 percent from the previous year. Yield, at 61 bushels per acre, was down 7 bushels from last year. Oat planting was completed early in May and progressed faster than the five-year average. At the beginning of May, 89 percent of the crop was planted, as compared with 63 percent on average. Emergence was slightly ahead of average. As of

June 26, oats were 76 percent headed, well ahead of normal. Warm temperatures during June increased crop growth. Harvest began in the middle of July and was completed by the middle of August, ahead of normal. Growers reported temperatures were above average for most of the State, and fields appeared to be very dry. For 2005, Sanilac county again ranked first in oat production, while Montcalm, Isabella, Shiawassee and Huron rounded out the top five counties.

Oats: Acres, yield, production, and value, 2001-2005

Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	70	55	64	3,520	1.80	6,336
2002	80	65	64	4,160	1.80	7,488
2003	90	75	70	5,250	1.65	8,663
2004	80	65	68	4,420	1.72	7,602
2005	90	75	61	4,575	1.90	8,693

¹ Marketing year average.

Potatoes

Michigan's 2005 potato production was 13.92 million hundredweight (cwt) up slightly from 13.65 million in 2004. Planted acres were 44,000 and harvested acres were 43,500. The State's average yield was 320 cwt per acre, down from the 2004 yield of 325 cwt. Potato planting began in the middle of April. Growers faced varying levels of disease and insect pressure throughout the summer, while dry weather late in the growing season limited yields on non-irrigated land. Potato harvest began in late July and

progressed about on par with normal. Digging was wrapped up by the end of October.

For 2005, Michigan again ranked tenth among States for potato production. Most Michigan potatoes are whites, which comprised approximately 83 percent of planted acreage, followed by russets and reds at 15 and 2 percent of planted acreage, respectively. Whites are processed for potato chips or sold for table use, while russets are used for french fries and other frozen products.

Fall potatoes: Acres, yield, production, and value, 2001-2005

Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	46.0	45.0	310	13,950	7.65	106,718
2002	46.5	45.5	305	13,878	7.80	108,248
2003	46.0	45.5	330	15,015	7.05	105,856
2004	43.0	42.0	325	13,650	6.95	94,868
2005	44.0	43.5	320	13,920	7.65	106,488

¹ Marketing year average.

Fall potatoes: Stocks by type as percent of total stocks, December 1, 2001-2005

Type	2001	2002	2003	2004	2005
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
White	90	88	86	89	87
Russet	9	11	13	10	12
Red	1	1	1	1	1

Fall potatoes: Production and disposition, 2001-2005

Crop year	Production	Total used for seed	Farm Disposition		Sold
			Seed, feed, and home use	Shrinkage and loss	
	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>
2001	13,950	1,181	245	945	12,760
2002	13,878	1,099	205	1,400	12,273
2003	15,015	1,060	265	1,680	13,070
2004	13,650	860	194	1,656	11,800
2005	13,920	(¹)	(¹)	(¹)	(¹)

¹ Published in September 2006

Fall potatoes: Stocks, 2001-2005

Crop year	December 1	January 1	February 1	March 1	April 1	May 1
	<i>1,000 cwt</i>					
2001	8,200	6,200	4,800	3,200	1,500	400
2002	7,900	6,500	5,600	4,500	2,900	1,000
2003	9,200	7,700	6,200	5,100	3,200	1,500
2004	8,000	6,300	4,800	3,600	2,200	900
2005	7,900	6,400	5,100	3,600	2,200	900

Soybeans

Michigan soybean production totaled 77.6 million bushels, up 3 percent from 2004. The yield was 39 bushels per acre in 2005. Planted acres remained unchanged from 2004. Harvested acres increased slightly from 1.98 million to 1.99. Soybean planting began early in mid-April but slowed due to low soil temperatures. A cool May slowed emergence with some frost damage. Growth varied by region into July. The southeast fields had bloomed, and the central regions were flowering, while growth was behind in the southwest. Growth lagged in drier areas and aphid problems were

reported in August. Molds, downy mildew, brown spot, spider mites, cyst nematode damage and aphids continued to be problems through September, though plants were reported by some to be taller than in previous seasons. In September dry conditions advanced growth rapidly and harvesting began in the early planted fields. Harvesting finished up in late October. Sanilac, Lenawee, Gratiot, Monroe, and Saginaw were the top five counties in soybean production.

Soybeans: Acres, yield, production, and value, 2001-2005

Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	2,150	2,130	30.0	63,900	4.47	285,633
2002	2,050	2,040	38.5	78,540	5.62	441,395
2003	2,000	1,990	27.5	54,725	7.30	399,493
2004	2,000	1,980	38.0	75,240	5.72	430,373
2005	2,000	1,990	39.0	77,610	5.55	430,736

¹ Marketing year average.

Soybeans: Stocks by quarter, 2001-2005

Crop year	December 1		March 1		June 1		September 1	
	On farm	Off farm						
	<i>1,000 bushels</i>							
2001	30,000	20,800	18,000	11,750	7,700	5,450	1,200	1,700
2002	26,000	21,000	16,000	13,450	9,100	5,680	2,800	1,300
2003	18,000	16,900	7,300	8,200	3,200	2,200	900	685
2004	35,000	21,960	22,000	10,890	7,600	6,530	2,500	2,460
2005	33,000	22,600	22,000	14,600	11,500	6,900		

Soybeans: Percentage of acreage planted, 2001-2005

Year	Month and day							
	May			June			July	
	10	20	30	10	20	30	10	
2001		31	58	75	80	91	96	100
2002		16	26	59	88	97	100	100
2003		7	18	55	83	97	100	100
2004		24	35	45	72	87	97	100
2005		34	69	90	98	100	100	100
5-year-average		23.0	41.0	65.0	84.0	94.0	99.0	100.0

Soybeans: Percentage of acreage setting pods, 2001-2005

Year	Month and day						
	July			August			
	10	20	30	10	20	30	
2001	0	15	46	70	84	94	
2002	0	4	29	62	95	100	
2003	0	2	16	50	82	97	
2004	0	7	23	49	76	88	
2005	3	22	55	83	97	100	
5-year-average	1.5	10.1	33.7	62.7	86.6	95.6	

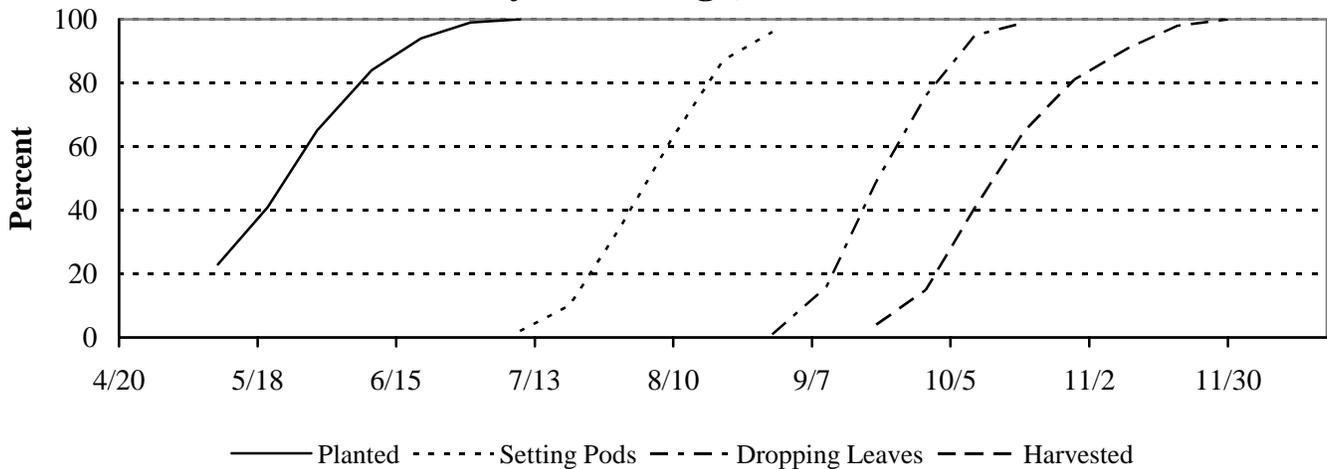
Soybeans: Percentage of acreage shedding leaves, 2001-2005

Year	Month and day							
	August		September			October		
	20	30	10	20	30	10	20	
2001	0	4	18	47	64	87	99	
2002	0	0	17	52	89	99	100	
2003	0	0	5	44	80	97	100	
2004	0	0	4	18	52	91	96	
2005	0	3	37	82	95	100	100	
5-year-average	0.0	1.4	16.2	49.0	75.9	94.8	99.0	

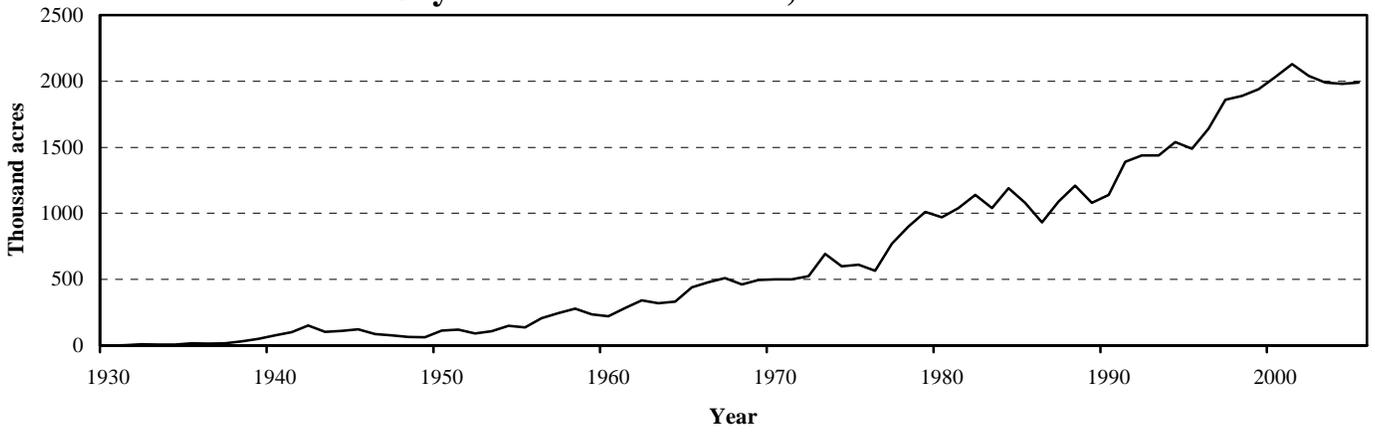
Soybeans: Percentage of acreage harvested, 2001-2005

Year	Month and day								
	September			October			November		
	10	20	30	10	20	30	10	20	30
2001	0	1	6	18	36	57	79	96	100
2002	0	4	20	45	73	93	100	100	100
2003	0	1	7	35	72	91	97	100	100
2004	0	1	11	40	58	69	81	96	100
2005	0	11	33	69	87	93	99	100	100
5-year-average	0.0	3.7	15.3	41.4	65.1	80.8	91.1	98.3	100.0

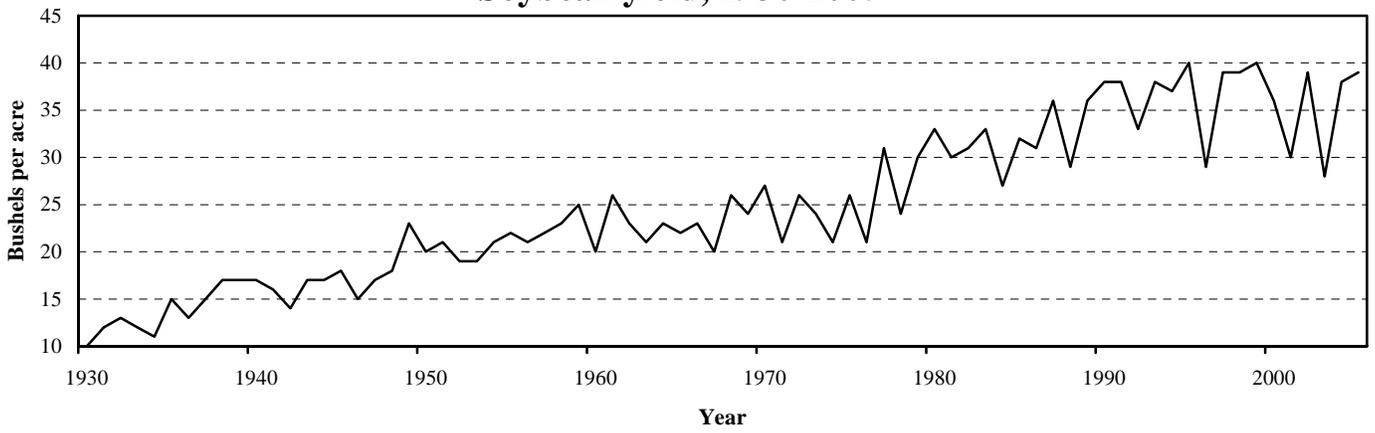
**Soybean progress
Five-year average, 2001-2005**



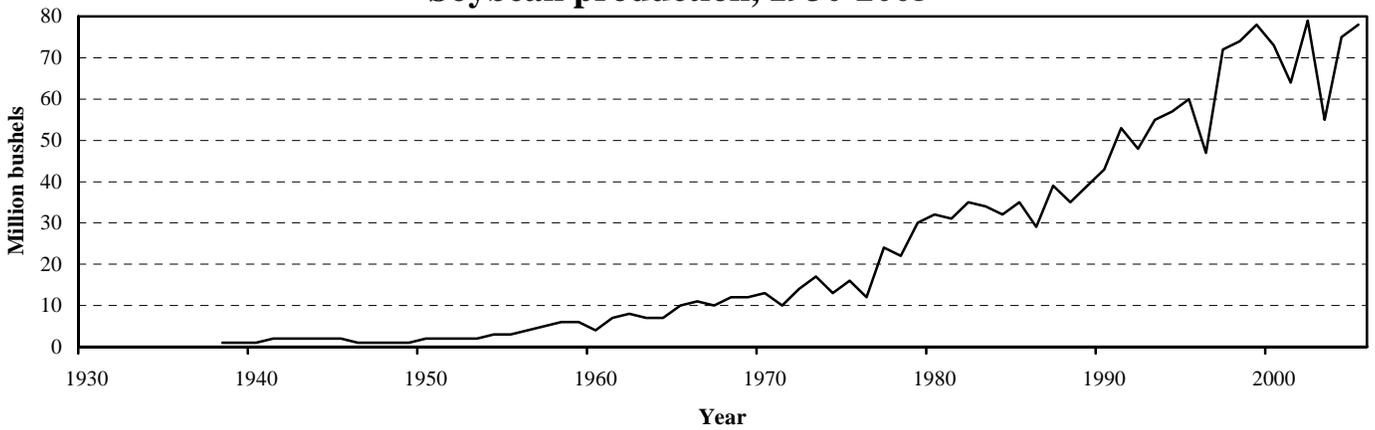
Soybean harvested acres, 1930-2005



Soybean yield, 1930-2005



Soybean production, 1930-2005



Sugarbeets

Acres planted to sugarbeets were estimated at 154,000 in 2005, down 11,000 acres from the previous year. Harvested acreage was estimated at 152,000, down from 163,000 in 2004. The yield of 21.3 tons per acre tied the record high, originally set in 1970. Production was down slightly, due to the decreased acreage. Planting was finished by early May. Damage was reported due to frost in May;

warm weather in June accelerated growth. Throughout the season, there were reports of Cercospora leaf spot. Warm weather conditions in early October prevented stockpiling. Once underway, harvest progressed at a near normal pace and finished by early November.

Sugarbeets: Acres, yield, production, and value, 2001-2005

Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	180	166	19.4	3,220	34.80	112,056
2002	179	177	18.1	3,204	38.20	122,393
2003	179	178	19.1	3,400	36.70	124,780
2004	165	163	21.1	3,439	26.40	90,790
2005	154	152	21.3	3,238	(²)	(²)

¹ Marketing year average.

² Published in February 2007.

Wheat

Michigan's 2005 winter wheat crop totaled 38.94 million bushels, down 2.0 million bushels from 2004. Planted acres were down from 660,000 acres the previous year to 600,000. Harvested acreage was at 590,000 acres. The average yield was 66 bushels per acre. The value of the crop declined 1 percent to \$123 million. Huron, Sanilac, Tuscola, Lenawee, and Saginaw were the top five counties in wheat production.

Winter wheat emerged from dormancy in predominantly good condition. About average winter kill was reported, even though there was some concern early in the season due to ice and ponding on fields. Spring fertilizer applications were completed on par with normal. As of May 1, almost two-thirds of the crop was reported in good to excellent condition. The Michigan wheat crop continued to

progress nicely. Precipitation during much of May led to an increase in powdery mildew.

By July, winter wheat was turning yellow at a pace nearly 20 percent ahead of normal. There was evidence of head scab in some fields. Nearly 60 percent of the crop was reported in good to excellent condition. Fields harvested had a low incidence of disease across the State. Poor yields due to dry conditions in the northern region impacted the overall yield for the State. Harvest began the second week in July and was completed by the third week in August. At the beginning of August, 94 percent of the crop was harvested. Fields harvested had a low incidence of disease across the State. Hot and dry weather caused the plants to be shorter than previous years, but farmers reported that grain quality was good.

Wheat: Acres, yield, production, and value, 2001-2005

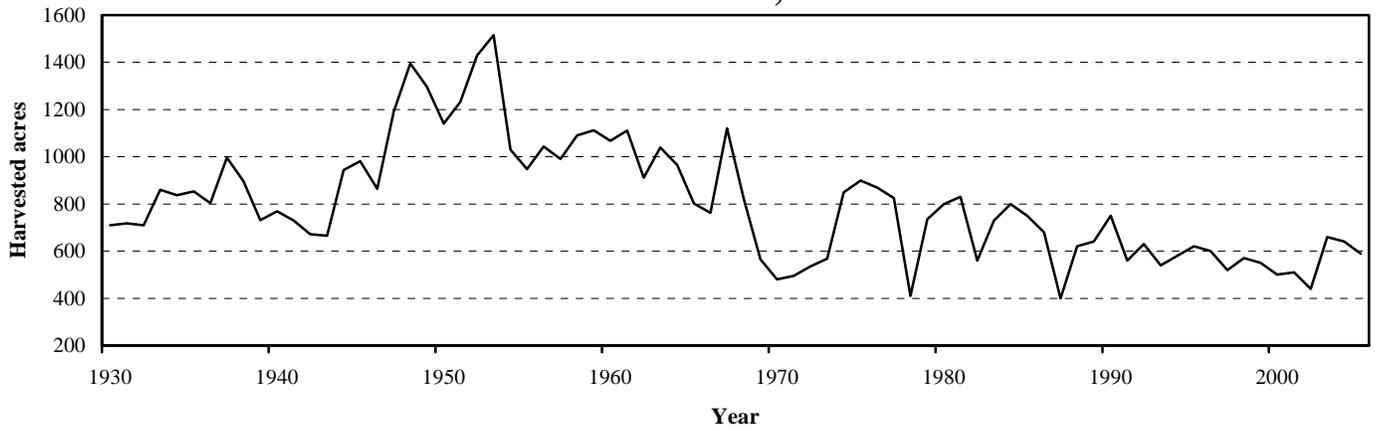
Year	Planted	Harvested	Yield	Production	Price ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Bushels</i>	<i>1,000 bushels</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	520	510	64	32,640	2.43	79,315
2002	450	440	67	29,480	3.28	96,694
2003	680	660	68	44,880	3.25	145,860
2004	660	640	64	40,960	3.01	123,290
2005	600	590	66	38,940	3.15	122,661

¹ Marketing year average.

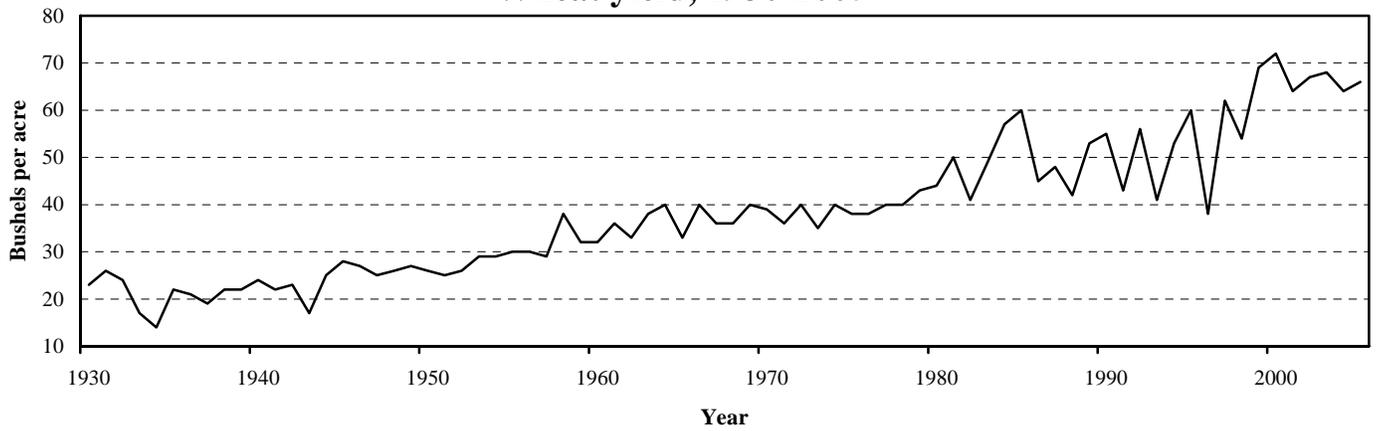
Wheat: Stocks by quarter, 2001-2005

Crop year	September 1		December 1		March 1		June 1	
	On farm	Off farm						
	<i>1,000 bushels</i>							
2001	4,500	25,900	3,300	19,700	1,200	16,050	600	11,330
2002	2,800	23,700	1,200	15,700	400	12,450	300	6,275
2003	5,000	28,430	2,800	23,050	600	15,190	300	7,310
2004	7,800	28,430	3,500	24,350	2,900	19,160	800	14,770
2005	6,900	28,450	3,600	23,700	1,300	17,800	600	11,100

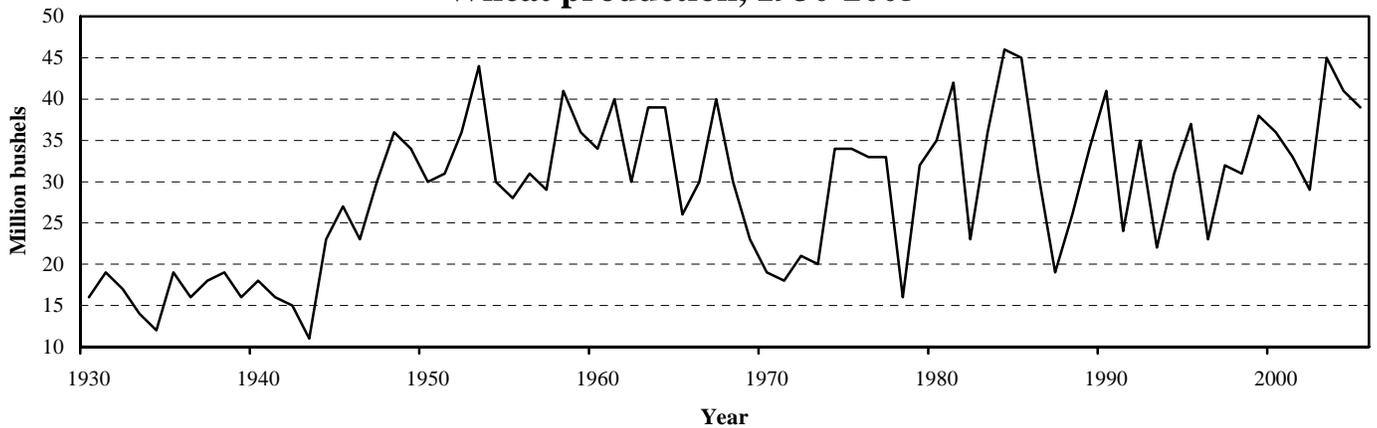
Wheat harvested acres, 1930-2005



Wheat yield, 1930-2005



Wheat production, 1930-2005



Fruit

Michigan apple production was 780 million pounds, up from 730 million pounds in 2004. The farm level value of the utilized crop was \$97.1 million. Michigan ranked third in U.S. apple production behind Washington and New York. Washington produced 5.80 billion pounds, and New York produced 1.04 billion pounds in 2005.

Tart cherry production was 208 million pounds, a sizeable increase from the 149 million pounds produced in 2004. The average yield was 7,620 pounds per acre. The farm level value was \$47.6 million. Sweet cherry production was 27,000 tons, up from 24,700 tons produced in 2004. The average yield was 3.29 tons per acre. The farm level value was \$16.7 million.

Cultivated blueberry production in Michigan was 66 million pounds, about 28 percent of the U.S. total. Growers harvested 16,800 acres in 2005. The farm level value was \$83.5 million.

Strawberry production in Michigan was 5.2 million pounds on 1,000 harvested acres. The farm level value was \$4.9 million.

Michigan peach production was 28.0 million pounds, down from 37.4 million pounds in 2004. Total bearing acres were 5,000, and the farm level value was \$8.0 million. Pear production in Michigan was 2,000 tons on 800 acres. The farm level value was \$834,000. Michigan plum production was 2,000 tons on 750 acres. The farm level value was \$722,000.

Michigan grape production was 102,700 tons; 102,000 tons were processed, and 700 tons went for the fresh market. The farm level value was \$21.8 million. There were 66,500 tons of Concord and 31,000 tons of Niagara grapes processed. There were 2,640 tons of vinifera, 1,660 tons of hybrid, and 300 tons of other varieties processed for wine. Prices for vinifera varieties averaged \$1,415 per ton, hybrids \$510 per ton, and other varieties \$340 per ton.

Fruit: Record highs and lows

Crop	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Apples	Million pounds	1,220	1995	53	1945,1945	1889
Blueberries	Million pounds	87	1993,1993	12	1977	1992
Cherries, sweet	Tons	37,500	1978	500	1945	1925
Cherries, tart	Million pounds	380	1964	15	2002	1925
Grapes	Tons	102,700	2005	4,200	1889	1889
Peaches	Million pounds	255	1945,1946	7.4	1918	1889
Pears	Tons	48,600	1964	1,400	2002	1889
Plums	Tons	25,000	1971	250	2002	1919
Strawberries	1,000 cwt	451	1940	41	2004	1928

Fruit: Acres harvested and value of production, 2001-2005

Item	Unit	2001	2002	2003	2004	2005
Acres harvested	1,000 acres	119	116	113	115	115
Value of production	1,000 dollars	219,418	150,735	273,349	283,219	282,855

Fruit: Acres, production, and value, 2001-2005

Fruit and Year	Bearing acres	Yield	Production		Price	Value of production
			Total	Utilized		
	<i>Acres</i>	<i>Pounds</i>	<i>Million pounds</i>	<i>Million pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>
Apples						
2001	46,000	20,200	930	900	0.094	84,330
2002	43,500	12,000	520	515	0.124	64,110
2003	41,500	21,400	890	890	0.117	103,925
2004	40,500	18,000	730	730	0.123	89,780
2005	40,500	19,300	780	775	0.125	97,130
Blueberries¹						
2001	16,800	4,170	70	70	0.712	49,840
2002	16,900	3,790	64	64	0.816	52,240
2003	15,900	3,900	62	62	1.020	63,105
2004	17,400	4,600	80	80	1.220	97,210
2005	16,800	3,930	66	66	1.270	83,500
Cherries, tart						
2001	28,000	10,600	297	242	0.184	44,412
2002	27,500	545	15	15	0.479	7,192
2003	27,000	5,700	154	154	0.376	57,938
2004	27,000	5,520	149	149	0.335	49,861
2005	27,300	7,620	208	208	0.229	47,555
Peaches						
2001	4,900	8,570	42.0	42.0	0.298	12,503
2002	5,000	2,800	14.0	14.0	0.318	4,452
2003	5,000	9,400	47.0	43.0	0.181	7,790
2004	5,200	7,200	37.4	37.4	0.274	10,274
2005	5,000	5,600	28.0	28.0	0.285	7,982
	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars per ton</i>	<i>1,000 dollars</i>
Cherries, sweet						
2001	8,100	2.84	23,000	23,000	482	11,092
2002	8,100	0.33	2,700	2,600	855	2,222
2003	8,100	1.60	13,000	13,000	830	10,795
2004	8,100	3.05	24,700	24,700	660	16,311
2005	8,200	3.29	27,000	27,000	620	16,732
Grapes						
2001	12,300	2.35	28,900	28,500	355	10,110
2002	12,300	3.47	42,700	42,500	347	14,760
2003	13,200	7.16	94,500	80,500	262	21,086
2004	13,900	4.50	62,500	58,000	242	14,015
2005	14,200	7.23	102,700	102,700	212	21,810
Pears						
2001	850	5.41	4,600	3,900	297	1,160
2002	850	1.65	1,400	1,400	318	445
2003	800	6.00	4,800	4,300	259	1,112
2004	800	4.33	3,460	3,400	311	1,058
2005	800	2.50	2,000	1,970	423	834
Plums						
2001	800	4.50	3,600	3,600	358	1,289
2002	800	0.31	250	240	358	86
2003	800	4.50	3,600	3,600	355	1,278
2004	750	3.33	2,500	2,000	353	705
2005	750	2.67	2,000	2,000	361	722

¹ Harvested acres.

Apples: Stocks in cold and controlled atmosphere storage ¹

Month	Crop year				
	2001	2002	2003	2004	2005
	<i>1,000 pounds</i>				
October	484,244	237,062	438,345	336,351	351,515
November	392,432	216,805	389,636	326,921	322,792
December	343,380	173,503	316,003	268,632	261,930
January	261,696	110,495	279,373	227,805	216,048
February	199,318	99,044	222,665	185,138	158,504
March	178,996	83,016	169,470	137,500	105,340
April	78,303	22,467	87,284	81,771	68,511

¹ End-of-month stocks.

Apples: Utilization and price, 2001-2005

Year	Fresh market		Processing		Total	
	Quantity	Price per lb	Quantity	Price per lb	Quantity	Price per lb
	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>	<i>Million pounds</i>	<i>Dollars</i>
2001	270	0.170	630	0.061	900	0.094
2002	150	0.223	365	0.084	515	0.124
2003	310	0.195	580	0.075	890	0.117
2004	240	0.202	490	0.084	730	0.123
2005	265	0.210	510	0.082	775	0.125

Apples, processing: Utilization and price, 2001-2005

Year	Canned		Frozen ¹		Juice and cider		Other	
	Quantity	Price per lb						
	<i>Million pounds</i>	<i>Dollars</i>						
2001	220	0.072	115	0.082	280	0.042	15	0.065
2002	135	0.100	90	0.105	135	0.052	5	0.122
2003	190	0.088	180	0.092	200	0.048	10	0.070
2004	210	0.090	157	0.098	115	0.055	8	0.090
2005	200	0.085	172	0.097	130	0.055	8	0.090

¹ Includes fresh slices.

Blueberries: Utilization and price, 2001-2005

Year	Production		Fresh market		Processed	
	Total	Utilized	Quantity	Price per pound	Quantity	Price per pound
	<i>Million lbs</i>	<i>Million lbs</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>Million lbs</i>	<i>Dollars</i>
2001	70	70	21	1.090	49	0.550
2002	64	64	22	1.210	42	0.610
2003	62	62	24	1.300	38	0.840
2004	80	80	36	1.600	44	0.900
2005	66	66	25	1.700	41	1.000

Cherries, sweet: Production and utilization, 2001-2005

Year	Total production	Utilized production							
		Fresh		Canned		Brined		Other ¹	
		Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton	Quantity	Price per ton
	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>
2001	23,000	1,000	1,280	700	450	15,500	440	5,800	460
2002	2,700	200	2,540	280	1,000	1,700	630	420	864
2003	13,000	500	2,230	1,500	920	8,000	675	3,000	967
2004	24,700	500	2,020	2,870	640	18,100	617	3,230	711
2005	27,000	600	1,770	4,350	630	17,800	550	4,250	739

¹ Frozen, juice, etc.

Cherries, tart: Utilization, 2001-2005

Year	Production		Fresh market	Processed					
	Total	Utilized		Canned		Frozen		Other ¹	
				Quantity	Price per pound	Quantity	Price per pound	Quantity	Price per pound
	<i>Million lbs</i>	<i>Million lbs</i>	<i>Million lbs</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>Million lbs</i>	<i>Dollars</i>
2001	297	242	1.0	80.0	0.179	151	0.189	10.0	0.098
2002	15	15	0.1	6.5	0.460	8	0.500	0.4	0.330
2003	154	154	0.5	53.0	0.390	95	0.370	5.5	0.317
2004	149	149	0.5	39.5	0.340	103	0.340	6.0	0.169
2005	208	208	0.5	51.0	0.240	146	0.230	10.5	0.141

¹ Juice, wine, and dried.

Cherries, tart: Production by region, 2001-2005

Region	2001	2002	2003	2004	2005
	<i>Million pounds</i>				
Northwest	183	3	98	88	129
West Central	84	4	37	37	64
Southwest and other	30	8	19	24	15
Michigan	297	15	154	149	208

Cherries, tart, frozen: Stocks in cold storage, 2002-2005, crop years

Month	East North Central region ¹				48 States total ²			
	2002	2003	2004	2005	2002	2003	2004	2005
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>
July	65,585	45,965	61,428	114,768	81,794	69,005	80,072	136,042
August	58,797	90,774	75,027	118,997	78,729	112,485	93,985	150,216
September	52,852	75,421	81,990	111,371	74,498	96,049	99,862	139,969
October	45,814	65,551	76,405	105,240	66,942	83,314	92,953	131,846
November	39,524	59,728	66,474	97,377	59,721	76,485	81,816	117,828
December	36,543	53,734	59,699	92,220	54,724	68,945	76,570	110,359
January	32,558	47,307	52,659	85,006	47,995	60,825	74,505	102,336
February	26,030	39,005	50,014	77,281	38,699	50,575	69,829	92,929
March	23,580	32,487	41,662	66,486	34,968	41,893	56,106	78,673
April	19,425	25,202	35,580	60,926	27,782	32,281	47,832	71,560
May	12,440	19,015	28,951	52,852	18,375	23,971	39,172	61,361
June	7,051	13,717	21,786		11,002	17,273	27,701	

¹ Illinois, Indiana, Michigan, Ohio, and Wisconsin.

² Excluding Alaska and Hawaii.

Grapes: Processed utilization and value, 2001-2005

Year	Concord	Niagara	Other	Total		
				Utilized production	Price per ton	Value
	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	19.0	7.0	2.2	28.2	350	9,870
2002	25.3	13.9	3.0	42.2	344	14,520
2003	51.0	27.0	2.0	80.0	259	20,686
2004	34.9	19.4	3.2	57.5	237	13,615
2005	66.5	31.0	4.5	102.0	208	21,250

Grapes: Processed for wine by category, 2001-2005 ¹

Year	Hybrids		Vinifera		Other		Total		
	Quantity	Price per ton	Value of production						
	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001							2,200	940	2,068
2002	1,300	425	1,650	1,330	50	250	3,000	920	2,760
2003	900	600	1,050	1,200	50	200	2,000	905	1,810
2004	970	520	1,950	1,185	280	180	3,200	895	2,864
2005	1,660	510	2,640	1,415	300	345	4,600	1,020	4,692

¹ Quantity and price per ton by category first published in 2002.

Peaches: Utilization and value, 2001-2005

Year	Fresh Market			Processing		
	Production	Price per pound	Value of production	Production	Price per ton	Value of production
	<i>Million lbs</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>Million lbs</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	27.0	0.375	10,125	15.0	317	2,378
2002	10.6	0.370	3,922	3.4	312	530
2003	25.0	0.200	5,000	18.0	310	2,790
2004	25.0	0.330	8,250	12.4	326	2,024
2005	14.0	0.390	5,460	14.0	360	2,520

Plums: Utilization and value, 2001-2005

Year	Fresh Market			Processing		
	Production	Price per ton	Value of production	Production	Price per ton	Value of production
	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	1,800	442	796	1,800	274	493
2002	60	600	36	180	278	50
2003	1,100	480	528	2,500	300	750
2004	350	769	269	1,650	264	436
2005	450	760	342	1,550	245	380

Strawberries: Acres, production and value, 2001-2005

Year	Total	Harvested	Yield	Production	Price per cwt	Value of production
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	1,000	900	56	50	93.60	4,682
2002	1,300	1,200	47	56	93.40	5,228
2003	1,200	1,100	57	63	100.00	6,320
2004	1,100	900	46	41	97.70	4,005
2005	1,100	1,000	52	52	93.80	4,878

Strawberries: Utilization and value, 2001-2005

Year	Fresh Market			Processing		
	Production	Price per cwt	Value of production	Production	Price per cwt	Value of production
	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	44	100	4,400	6	47	282
2002	51	98	4,998	5	46	230
2003	58	105	6,090	5	46	230
2004	36	105	3,780	5	45	225
2005	47	99	4,653	5	45	225

Refrigerated warehouses: Number and capacity, October 1, 2005 ¹

Type	Number	Usable freezer space	Usable cooler space	Controlled atmosphere
		<i>1,000 cu ft</i>	<i>1,000 cu ft</i>	<i>1,000 bushels</i>
Apple	155		29,278	7,175
General-public	24	45,982	6,896	
General-private and semi-private	18	16,751	4,408	

¹ Conducted biennially.

Vegetables

Michigan vegetable growers produced 887,560 tons of fresh and processed vegetables in 2005. Harvested acreage was 126,600, a 5 percent increase from 2004. Value of production totaled \$216 million, down \$15 million from last year. Nationally, Michigan ranked eighth and fifth, respectively, for fresh market and processing vegetable value of production.

Michigan farmers produced 9.74 million hundredweight (cwt) of fresh market vegetables, an increase of 2 percent from 2004. Processing vegetable production totaled 400,460 tons, up 7 percent from last year. Vegetable planting activities had progressed steadily for much of the State by the first of May. Planting and transplanting

continued in May with warmer weather and light precipitation. By early summer, vegetable crops were growing rapidly; however, some crops were being stressed due to hot weather.

Michigan ranked third among States for dual purpose asparagus production with 228,000 cwt produced, down 16 percent from last year's 270,000 cwt. The crop progressed by the middle of May, but harvest was behind normal due to cool temperatures and severe labor shortages. At the beginning of June, harvest was producing light yields. High heat and lack of moisture during the middle of June caused many areas to have poor quality. Harvest wrapped up the fourth week in June.

Vegetables: Record highs and lows

Crop	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Asparagus						
Harvested	1,000 acres	23.0	1989	1.0	1928	1928
Yield	Cwt	31	1947	9	1981	
Production	1,000 cwt	317	2003	17	1928	
Beans, snap (processing)						
Harvested	1,000 acres	27.0	1999	0.8	1921	1918
Yield	Tons	3.89	1998	0.60	1947	
Production	Tons	100,970	1999	600	1921	
Carrots (fresh market)						
Harvested	1,000 acres	7.7	1994	0.5	1929	1929
Yield	Cwt	398	1995	155	1957	
Production	1,000 cwt	2,610	1995	132	1936	
Celery						
Harvested	1,000 acres	7.2	1941	1.8	1966,1968	1928
Yield	Cwt	560	2004	174	1935	
Production	1,000 cwt	1,915	1941	576	1966	
Corn, sweet (fresh market)						
Harvested	1,000 acres	15.2	1961	9.0	1988,2001	1949
Yield	Cwt	90	2003	42	1949	
Production	1,000 cwt	1,020	1994	525	1949	
Cucumbers (processing)						
Harvested	1,000 acres	46.3	1949	9.3	1932	1918
Yield	Tons	6.7	1987	0.6	1924	
Production	Tons	182,400	2005	8,900	1932	
Onions						
Harvested	1,000 acres	12.7	1935	2.9	2005	1928
Yield	Cwt	350	1960	120	1935	
Production	1,000 cwt	2,833	1948	852	1928	
Tomatoes (fresh market)						
Harvested	1,000 acres	9.4	1943	1.8	2001	1928
Yield	Cwt	280	2005	60	1959	
Production	1,000 cwt	797	1943	204	1988	
Tomatoes (processing)						
Harvested	1,000 acres	9.7	1982	1.0	1921	1918
Yield	Tons	38.0	2003	2.7	1943	
Production	Tons	205,000	1982	5,000	1921	

Vegetables: Acres harvested and value of production, 2001-2005

Item	Unit	2001	2002	2003	2004	2005
Acres harvested	1,000 acres	112	120	117	120	127
Value of production	1,000 dollars	208,121	213,604	226,812	231,904	216,540

Principal vegetables, fresh market: Acres, production, and value, 2001-2005

Year	Planted	Harvested	Production	Value
	<i>Acres</i>	<i>Acres</i>	<i>1,000 cwt</i>	<i>1,000 dollars</i>
2001	70,100	62,300	9,154	157,708
2002	69,300	63,900	9,279	160,586
2003	71,100	64,200	9,854	170,366
2004	68,600	63,800	9,553	175,402
2005	68,400	61,800	9,742	163,334

Principal vegetables, processing: Acres, production, and value, 2001-2005

Year	Planted	Harvested	Production	Value
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 dollars</i>
2001	52,350	50,100	318,280	50,413
2002	57,700	55,900	386,130	53,018
2003	53,900	52,700	389,710	56,446
2004	57,700	56,600	374,780	56,502
2005	67,000	64,800	400,460	53,206

Vegetables, processing: Acres, production, and value, 2001-2005 ¹

Item and Year	Planted	Harvested	Yield	Production	Price per ton	Value
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Carrots						
2001	1,550	1,500	21.00	31,500	69.00	2,174
2002	1,800	1,800	23.00	41,400	67.00	2,774
2003	1,700	1,600	24.00	38,400	69.00	2,650
2004	1,400	1,300	25.00	32,500	62.00	2,015
2005	1,500	1,400	22.00	30,800	63.00	1,940
Cucumbers						
2001	31,000	29,500	4.25	125,380	246.00	30,843
2002	35,500	34,500	4.60	158,700	190.00	30,153
2003	34,000	33,500	5.40	180,900	200.00	36,180
2004	35,000	34,500	5.00	172,500	205.00	35,363
2005	38,500	38,000	4.80	182,400	168.00	30,643
Snap beans						
2001	16,500	16,000	3.50	56,000	160.00	8,964
2002	16,700	16,000	3.75	60,030	160.00	9,633
2003	14,800	14,300	3.15	45,010	160.00	7,208
2004	17,700	17,300	3.54	61,280	169.00	10,335
2005	23,700	22,200	2.81	62,460	168.00	10,514
Tomatoes						
2001	3,300	3,100	34.00	105,400	80.00	8,432
2002	3,700	3,600	35.00	126,000	83.00	10,458
2003	3,400	3,300	38.00	125,400	83.00	10,408
2004	3,600	3,500	31.00	108,500	81.00	8,789
2005 ²						

¹ Cabbage for sauerkraut and green pea estimates are not published to avoid disclosure of individual operations.

² Estimates not published to avoid disclosure of individual operations.

Vegetables, fresh market: Acres, production, and value, 2001-2005

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value ¹
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Beans, snap						
2001	4,200	3,800	50	190	35.00	6,650
2002	4,000	3,900	45	176	38.00	6,688
2003	4,300	4,000	40	160	25.00	4,000
2004	4,400	4,100	45	185	45.00	8,325
2005	4,800	4,200	50	210	25.00	5,250
Cabbage						
2001	2,000	1,800	320	576	14.00	8,064
2002	1,900	1,800	300	540	12.00	6,480
2003	2,000	1,800	320	576	10.00	5,760
2004	1,800	1,600	270	432	12.00	5,184
2005	1,700	1,400	450	630	6.30	3,969
Cantaloups						
2001	600	500	105	53	21.00	1,113
Carrots						
2001	5,000	4,800	350	1,680	13.80	23,184
2002	4,300	4,000	330	1,320	13.00	17,160
2003	4,400	4,200	350	1,470	13.10	19,257
2004	4,400	4,200	310	1,302	12.20	15,884
2005	4,400	4,200	250	1,050	14.00	14,700
Corn, sweet						
2001	10,500	9,000	60	540	22.00	11,880
2002	11,000	10,000	80	800	21.00	16,800
2003	11,000	9,500	90	855	16.60	14,193
2004	10,500	9,500	75	713	19.50	13,904
2005	11,000	9,500	85	808	20.00	16,160
Cucumbers						
2001	6,500	5,500	220	1,210	20.00	24,200
2002	6,800	6,000	190	1,140	18.00	20,520
2003	7,300	6,400	160	1,024	20.40	20,890
2004	7,500	7,400	175	1,295	17.20	22,274
2005	7,600	7,200	170	1,224	16.50	20,196
Onions						
2001	4,100	3,700	270	999	12.20	9,748
2002	4,000	3,900	230	897	12.50	8,963
2003	3,700	3,600	320	1,152	14.50	13,369
2004	3,700	3,200	290	928	10.80	8,024
2005	3,800	3,700	260	962	12.50	9,650
Radishes						
2001	3,500	3,000	65	195	25.00	4,875
Tomatoes						
2001	1,900	1,800	210	378	35.00	13,230
2002	2,100	2,000	210	420	30.50	12,810
2003	2,300	2,200	220	484	34.00	16,456
2004	2,200	2,100	260	546	48.00	26,208
2005	2,300	2,200	280	616	37.00	22,792

¹ Onions = Value of sales.

Vegetables, dual purpose: Acres, production, and value, 2001-2005

Item and year	Planted	Harvested	Yield	Production	Price per cwt	Value
	<i>Acres</i>	<i>Acres</i>	<i>Cwt</i>	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Asparagus						
2001	15,500	14,300	20	290	43.20	12,516
2002	16,000	15,000	15	219	53.40	11,703
2003	16,000	15,000	21	317	60.80	19,278
2004	15,000	13,500	20	270	64.70	17,468
2005	13,000	12,000	19	228	51.60	11,754
Celery						
2001	2,000	1,900	460	873	14.50	12,650
2002	2,200	2,100	470	987	14.60	14,441
2003	2,300	2,200	530	1,166	15.10	17,641
2004	2,300	2,200	560	1,232	12.30	15,215
2005	2,300	2,200	520	1,144	15.90	18,190
Peppers, bell						
2001	1,900	1,400	260	364	22.00	8,008
2002	1,800	1,600	250	400	24.00	9,600
2003	1,800	1,800	250	450	22.00	9,900
2004	1,800	1,800	290	522	26.00	13,572
2005	1,700	1,600	300	480	23.00	11,040
Pumpkins						
2001	5,500	4,400	120	528	12.00	6,336
2002	8,000	6,800	120	816	16.00	13,056
2003	8,500	7,300	140	1,022	14.00	14,308
2004	7,800	7,200	140	1,008	13.00	13,104
2005	7,200	6,100	140	854	13.00	11,102
Squash						
2001	6,900	6,400	200	1,278	11.90	15,254
2002	7,200	6,800	230	1,564	14.30	22,365
2003	7,500	6,200	190	1,178	13.00	15,314
2004	7,200	7,000	160	1,120	14.50	16,240
2005	8,600	7,500	205	1,536	12.10	18,531

Asparagus: Utilization and value, 2001-2005

Year	Fresh market			Processing		
	Production	Price per cwt	Value of production	Production	Price per ton	Value of production
	<i>1,000 cwt</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>Tons</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	48	49.00	2,352	12,100	840	10,164
2002	21	67.00	1,407	9,900	1,040	10,296
2003	43	66.00	2,838	13,700	1,200	16,440
2004	26	90.00	2,340	12,200	1,240	15,128
2005	54	63.00	3,402	8,700	960	8,352

U.S. Pickle stocks in tanks, barrels, and fresh pack, December 1, 2001-2005

Year	From current year crop			From previous year crop		Total stocks
	Salt stock including dill	Fresh pack	Refrigerated	Salt stock including dill	Fresh pack	
	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
2001	285,902	129,986	12,426	123,989		552,303
2002	225,243	54,329	1,236	19,772		300,580
2003	210,291	57,695	44,628	13,259	27,700	353,573
2004	168,553	55,474	1,638	14,979		240,644
2005	161,670	46,474	52,264	38,865		299,273

Horticulture

Michigan placed third nationally in value of wholesale sales of floriculture products in 2005. Only California and Florida reported larger sales than Michigan. Reports from Michigan's 696 commercial growers (\$10,000 or more in gross sales) showed an estimated wholesale value of \$384 million for all surveyed floriculture crops, virtually unchanged from last year's revised figure. This estimate includes summarized sales data as reported by growers with \$100,000 or more in sales plus a calculated wholesale value of sales for operations with sales from \$10,000 to \$99,999.

The leading crop category breakdowns for Michigan operations with more than \$100,000 in sales were:

First, annual bedding/garden plants with \$183 million in sales.

Second, propagative materials with \$82 million in sales.

Third, herbaceous perennial plants with \$53 million in sales.

Fourth, potted flowering plants with \$34 million in sales.

Michigan led the nation in value of sales for 13 crops:

- Potted Easter Lilies with 1.3 million pots sold, valued at \$4.6 million.
- Potted Spring Flowering Bulbs with 6.9 million pots sold, valued at \$8.7 million.
- Potted Geraniums (seed) with 15.9 million pots sold, valued at \$12.7 million.
- Potted Petunias with 2.5 million pots sold, valued at \$4.6 million.
- Potted New Guinea Impatiens with 4.8 million pots sold, valued at \$6.9 million.
- New Guinea Impatiens Hanging Baskets with 803,000 baskets sold, valued at \$5.0 million.
- Geranium Hanging Baskets (cuttings) with 716,000 baskets sold, valued at \$4.8 million.

- Impatiens Hanging Baskets with 550,000 sold, valued at \$2.8 million.
- Begonia Hanging Baskets with 434,000 baskets sold, valued at \$2.4 million.
- Petunia Hanging Baskets with 544,000 baskets sold, valued at \$3.0 million.
- Impatiens (flats) with 2.1 million flats sold, valued at \$15.3 million.
- New Guinea Impatiens (flats) with 78,000 flats sold, valued at \$832,000.
- Potted Geraniums (cuttings) with 4.9 million pots sold, valued at \$11.7 million.

Michigan crops that ranked second in value of sales nationally were:

- Potted Hardy/Garden Chrysanthemums 5.7 million pots sold, valued at \$11.2 million.
- Other Flowering Hanging Baskets with 2.1 million baskets sold, valued at \$ 12.7 million.
- Petunias (flats) with 1.6 million flats sold, valued at \$11.5 million.
- Begonias (flats) with 1.3 million flats sold, valued at \$9.7 million.
- Potted Hosta with 1.1 million pots sold, valued at \$3.4 million.
- Marigolds (flats) with 772,000 flats sold, valued at \$5.7 million.
- Pansy/Viola Hanging Baskets with 85,000 baskets sold, valued at \$408,000.
- Geranium (seed) Hanging Baskets with 68,000 baskets sold, valued at \$421,000.

Floriculture crops: Number of growers by gross value of sales, 2001-2005

Year	\$10,000- \$19,999	\$20,000- \$39,000	\$40,000- \$49,000	\$50,000- \$99,999	\$100,000- \$499,999	\$500,000 or more	Total growers
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
2001	57	83	47	161	239	121	708
2002	60	121	65	187	234	124	791
2003	58	96	47	188	220	134	743
2004	49	89	46	182	216	139	721
2005	46	94	41	174	202	139	696

Floriculture crops: Growing area by type of cover, 2001-2005

Year	Glass greenhouses	Fiberglass and other rigid greenhouses	Plastic film greenhouses	Total greenhouse cover	Shade and temporary cover	Total covered area	Open ground
	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>1,000 square feet</i>	<i>Acres</i>
2001	4,706	3,876	31,902	40,484	1,141	41,625	3,235
2002	4,653	3,884	36,501	45,038	1,370	46,408	3,831
2003	4,657	4,191	37,424	46,272	1,569	47,841	3,237
2004	4,549	4,616	38,692	47,857	1,353	49,210	4,687
2005	4,332	4,614	36,891	45,837	1,180	47,017	4,957

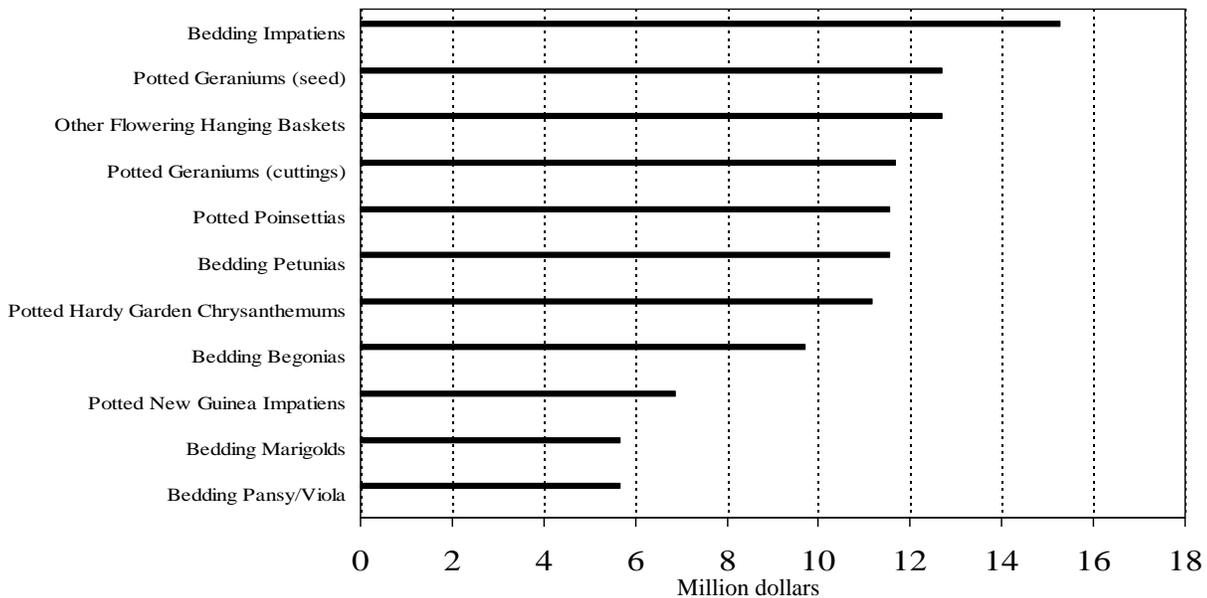
Floriculture crops: Wholesale value of sales by category, 2001-2005

Year	Total cut flowers	Total potted flowering plants	Total foliage for indoor or patio use	Total bedding/garden plants	Total wholesale value of reported crops	Expanded wholesale value of reported crops ¹
	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2001	8,119	29,447	3,531	188,216	263,158	280,745
2002	8,299	30,736	3,699	217,773	306,271	326,778
2003	8,797	32,400	3,375	230,322	322,980	342,190
2004	8,711	32,074	4,152	238,508	365,897	384,655
2005	9,245	33,966	3,299	236,865	365,994	384,055

¹ Wholesale value of sales as reported by growers with \$100,000 or more in sales of floriculture crops plus a calculated wholesale value of sales for growers with sales below \$100,000. The value of sales for growers below the \$100,000 level was estimated by multiplying the number of growers in each size group by the midpoint of each dollar range.

Selected Floriculture Crops, 2005

Value of Sales



Bedding plants: Producers, quantity sold, price, and value, 2001-2005

Item	Producers	Quantity sold	Percent of sales at wholesale	Wholesale price	Value of sales at wholesale
	<i>Number</i>	<i>1,000 flats</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Begonias					
2001	209	1,025	86	7.06	7,237
2002	217	1,008	81	7.13	7,187
2003	227	1,026	82	6.66	6,833
2004	232	1,114	81	7.12	7,932
2005	224	1,349	86	7.18	9,686
Geraniums from cuttings					
2001	27	85	39	12.25	1,041
2002	21	76	33	12.55	954
2003	18	57	20	11.37	648
2004	16	67	33	15.24	1,021
2005	(¹)	(¹)	(¹)	(¹)	(¹)
Geraniums from seed					
2001	52	113	87	11.53	1,303
2002	47	105	89	10.56	1,109
2003	40	83	77	10.86	901
2004	32	73	74	11.41	833
2005	35	60	83	11.32	679
Impatiens					
2001	242	2,344	83	7.05	16,525
2002	224	2,372	88	7.40	17,553
2003	238	2,383	86	6.85	16,324
2004	235	2,302	86	7.01	16,137
2005	220	2,061	85	7.41	15,272
Marigolds					
2001	214	794	86	7.35	5,836
2002	219	731	90	7.39	5,402
2003	231	823	87	6.77	5,572
2004	234	814	87	7.08	5,763
2005	226	772	84	7.34	5,666
New Guinea Impatiens					
2001	40	99	83	11.17	1,106
2002	41	103	73	9.89	1,019
2003	28	137	80	7.86	1,077
2004	21	65	49	10.01	651
2005	23	78	84	10.67	832
Pansies/Violas					
2001	200	637	89	6.94	4,421
2002	208	821	91	7.34	6,026
2003	216	920	91	6.57	6,044
2004	218	882	91	6.77	5,971
2005	206	804	88	7.03	5,652
Petunias					
2001	259	1,484	86	7.03	10,433
2002	252	1,430	87	7.42	10,611
2003	252	1,641	85	6.85	11,241
2004	256	1,644	86	7.05	11,590
2005	247	1,556	85	7.41	11,530
Other flowering and foliar					
2001	243	3,985	86	6.91	27,536
2002	241	3,768	86	7.45	28,072
2003	244	4,403	85	6.85	30,161
2004	246	3,917	85	7.26	28,437
2005	241	3,672	85	7.67	28,164
Vegetables ²					
2001	187	567	82	6.97	3,952
2002	186	585	83	7.12	4,165
2003	181	506	78	6.93	3,507
2004	186	569	80	7.33	4,171
2005	181	630	74	8.16	5,141

¹ Not published to avoid disclosure of individual operations.

² Does not include vegetable transplants grown for commercial use.

Hanging baskets: Producers, quantity sold, price, and value, 2001-2005

Item	Producers	Quantity sold	Percent of sales at wholesale	Wholesale price	Value of sales at wholesale
	<i>Number</i>	<i>1,000 baskets</i>	<i>Percent</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Begonias					
2001	145	276	82	5.94	1,639
2002	148	350	83	5.84	2,044
2003	165	348	87	5.94	2,067
2004	165	394	86	5.78	2,277
2005	168	434	86	5.63	2,443
Geraniums from cuttings					
2001	199	399	75	6.76	2,697
2002	211	546	82	6.79	3,707
2003	222	826	84	6.53	5,394
2004	212	784	83	6.56	5,143
2005	212	716	81	6.69	4,790
Geraniums from seed					
2001	30	101	76	5.82	588
2002	28	53	91	6.54	347
2003	27	47	91	6.30	296
2004	25	59	95	5.75	339
2005	29	68	97	6.19	421
Impatiens					
2001	186	376	86	5.49	2,064
2002	180	453	88	5.43	2,460
2003	200	496	84	5.28	2,619
2004	198	472	82	5.23	2,469
2005	199	550	86	5.08	2,794
Marigolds					
2001	3	4	100	5.61	22
2002	(¹)	(¹)	(¹)	(¹)	(¹)
2003	(¹)	(¹)	(¹)	(¹)	(¹)
2004	(¹)	(¹)	(¹)	(¹)	(¹)
2005	3	2	100	4.98	10
New Guinea Impatiens					
2001	219	586	83	6.50	3,809
2002	224	766	89	6.83	5,232
2003	224	770	87	6.75	5,198
2004	221	813	90	6.37	5,179
2005	217	803	90	6.22	4,995
Pansies/Violas					
2001	27	33	87	5.57	184
2002	33	51	93	5.54	283
2003	36	49	89	5.52	270
2004	30	46	86	5.24	241
2005	35	85	95	4.80	408
Petunias					
2001	168	236	79	5.66	1,336
2002	170	346	87	5.66	1,958
2003	196	469	85	5.80	2,720
2004	197	517	86	5.25	2,714
2005	192	544	83	5.49	2,987
Other flowering					
2001	177	1,164	82	6.21	7,228
2002	191	1,595	88	6.22	9,921
2003	197	1,780	86	5.91	10,520
2004	208	1,968	83	6.10	12,005
2005	203	2,095	84	6.05	12,675
Foliage					
2001	52	306	95	4.95	1,515
2002	58	323	95	5.02	1,621
2003	61	213	92	4.81	1,025
2004	65	430	93	4.42	1,901
2005	61	271	91	4.80	1,301

¹ Not published to avoid disclosure of individual operations.

Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 2001-2005

Item	Producers	Quantity sold			Percent of sales at wholesale	Wholesale price		Value of sales at wholesale
		Less than 5 inch pots	5 inch pots or larger	Total		Less than 5 inch pots	5 inch pots or larger	
	<i>Number</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Azaleas								
2001	34	14	110	124	69	3.47	6.64	779
2002	28	(¹)	94	94	87	(¹)	7.29	685
2003	23	(¹)	89	89	85	(¹)	7.50	667
2004	24	(¹)	93	93	87	(¹)	7.82	727
2005	20	(¹)	68	68	87	(¹)	7.60	517
Begonias								
2001	69	577	38	615	61	1.26	3.01	841
2002	72	459	54	513	80	1.08	3.60	690
2003	87	563	145	708	90	1.51	2.55	1,220
2004	96	637	213	850	88	1.05	2.48	1,197
2005	91	542	119	661	90	1.11	3.40	1,006
Chrysanthemums, florist								
2001	46	162	647	809	64	1.48	3.78	2,685
2002	37	104	511	615	97	1.69	3.00	1,709
2003	31	49	465	514	98	1.62	2.61	1,293
2004	32	35	204	239	75	1.64	3.99	871
2005	24	28	262	290	89	1.71	5.99	1,617
Chrysanthemums, hardy garden								
2001	119	255	2,670	2,925	90	1.21	1.76	5,008
2002	127	227	3,611	3,838	94	1.29	1.69	6,395
2003	124	370	4,461	4,831	94	1.69	1.70	8,209
2004	134	929	4,746	5,675	95	1.50	2.02	10,980
2005	143	558	5,104	5,662	95	1.00	2.08	11,174
Easter Lilies								
2001	55	(¹)	1,438	1,438	97	(¹)	3.50	5,036
2002	48	146	1,282	1,428	97	2.75	3.52	4,914
2003	43	(¹)	1,296	1,296	97	(¹)	3.58	4,633
2004	38	91	1,290	1,381	97	1.72	3.66	4,878
2005	38	(¹)	1,265	1,265	98	(¹)	3.61	4,572
Geraniums from cuttings								
2001	217	3,101	1,422	4,523	70	1.71	2.52	8,886
2002	215	4,152	1,211	5,363	77	1.40	2.47	8,804
2003	223	3,574	1,333	4,907	69	1.73	3.30	10,582
2004	231	3,739	1,448	5,187	70	1.74	3.60	11,719
2005	211	3,629	1,262	4,891	69	1.79	4.10	11,670
Geraniums from seed								
2001	100	15,391	39	15,430	95	0.77	5.45	12,064
2002	98	16,156	10	16,166	98	0.81	3.46	13,121
2003	111	13,528	(¹)	13,528	97	0.85	(¹)	11,472
2004	109	16,726	(¹)	16,726	98	0.81	(¹)	13,565
2005	100	15,792	79	15,871	98	0.78	4.89	12,704
Impatiens								
2001	49	307	166	473	69	1.06	2.05	666
2002	46	309	123	432	95	0.96	1.85	524
2003	52	408	176	584	96	1.41	1.98	924
2004	63	732	353	1,085	94	0.91	2.03	1,383
2005	69	554	111	665	95	0.84	3.10	809
Marigolds								
2001	12	(¹)	212	212	65	(¹)	1.45	307
2002	14	71	22	93	98	0.84	1.93	102
2003	19	59	60	119	97	0.77	1.63	143
2004	28	113	171	284	98	0.85	1.84	411
2005	24	113	82	195	97	0.76	1.63	220
New Guinea Impatiens								
2001	178	2,753	307	3,060	90	1.23	3.12	4,344
2002	174	3,535	230	3,765	95	1.23	3.27	5,100
2003	179	3,845	357	4,202	92	1.28	3.90	6,314
2004	199	3,642	343	3,985	94	1.27	3.64	5,874
2005	181	4,252	532	4,784	95	1.25	2.94	6,879

See footnote(s) at end of table.

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Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 2001-2005 (continued)

Item	Producers	Quantity sold			Percent of sales at wholesale	Wholesale price		Value of sales at wholesale
		Less than 5 inch pots	5 inch pots or larger	Total		Less than 5 inch pots	5 inch pots or larger	
	<i>Number</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Pansies/Violas								
2001	25	280	64	344	80	0.66	1.93	308
2002	31	576	141	717	98	0.68	2.59	757
2003	45	220	417	637	97	0.82	1.97	1,002
2004	50	873	235	1,108	98	0.46	2.17	912
2005	58	901	312	1,213	98	0.44	2.81	1,273
Petunias								
2001	49	360	243	603	56	1.12	2.16	928
2002	62	461	312	773	94	0.85	2.44	1,153
2003	76	619	803	1,422	92	1.49	1.99	2,520
2004	98	1,113	1,240	2,353	92	1.25	2.46	4,442
2005	91	1,142	1,325	2,467	93	0.89	2.70	4,594
Poinsettias								
2001	100	992	3,057	4,049	85	1.45	3.98	13,605
2002	93	915	2,847	3,762	90	1.60	4.12	13,194
2003	84	958	2,770	3,728	90	1.65	4.21	13,242
2004	86	841	2,696	3,537	93	1.83	4.18	12,808
2005	86	656	2,485	3,141	91	1.89	4.15	11,553
Roses, florist								
2001	17	52	55	107	95	2.69	4.23	373
2002	10	87	(¹)	87	95	3.59	(¹)	312
2003	9	(¹)	64	64	94	(¹)	3.61	231
2004	6	79	(¹)	79	96	3.20	(¹)	253
2005	12	(¹)	54	54	89	(¹)	3.86	209
Flowering bulbs								
2001	47	821	665	1,486	96	1.48	3.40	3,476
2002	49	666	1,467	2,133	99	1.52	3.29	5,839
2003	40	901	1,398	2,299	99	2.07	3.32	6,506
2004	41	751	1,531	2,282	98	1.46	3.21	6,011
2005	38	6,917	(¹)	6,917	100	1.25	(¹)	8,674
Other flowering plants								
2001	55	805	485	1,290	84	1.61	3.54	3,013
2002	60	977	455	1,432	87	1.58	4.31	3,505
2003	54	1,554	801	2,355	89	1.18	3.87	4,934
2004	58	1,500	468	1,968	84	1.80	4.21	4,670
2005	47	1,124	411	1,535	84	1.46	4.18	3,359
Other flowering and foliar type bedding plants								
2001	120	9,026	1,372	10,398	82	1.16	3.49	15,258
2002	125	10,294	2,805	13,099	95	1.07	3.12	19,766
2003	137	12,733	4,296	17,029	92	1.38	3.10	30,889
2004	147	16,780	3,068	19,848	91	1.01	3.21	26,796
2005	136	12,734	3,216	15,950	89	1.17	3.26	25,383
Vegetable type ²								
2001	65	594	169	763	90	0.86	1.54	771
2002	73	1,066	164	1,230	93	0.69	2.16	1,090
2003	91	1,241	206	1,447	85	0.79	2.10	1,413
2004	93	3,129	343	3,472	94	0.54	1.97	2,365
2005	95	5,448	266	5,714	98	0.59	2.66	3,922

¹ Pot sizes have been combined into category with greatest production to avoid disclosure of individual operations.

² Does not include vegetable transplants grown for commercial use.

Herbaceous perennials: Producers, quantity sold, price, and value, 2001-2005

Item	Producers	Quantity sold				Percent of sales at wholesale	Wholesale price			Value of All sales at wholesale
		Less than 1 gallon	1 to 2 gallon	2 gallon and larger	Total		Less than 1 gallon	1 to 2 gallon	2 gallon and larger	
	<i>Number</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>1,000 pots</i>	<i>percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>
Hosta										
2001	111	584	1,073	46	1,703	94	2.76	2.89	6.43	5,009
2002	115	936	907	47	1,890	92	2.50	3.68	6.22	5,970
2003	126	825	1,020	69	1,914	90	2.49	3.64	5.85	6,171
2004	124	676	711	94	1,481	88	2.01	3.58	5.26	4,399
2005	120	431	602	112	1,145	86	1.53	3.38	6.37	3,408
Other										
2001	136	13,890	5,110	317	19,317	94	1.25	3.06	5.90	34,869
2002	142	22,281	6,382	302	28,965	95	1.00	3.43	6.83	46,234
2003	153	15,220	5,377	356	20,953	92	1.11	3.53	6.12	38,054
2004	147	9,780	6,824	741	17,345	90	1.40	3.42	6.15	41,587
2005	146	13,964	5,906	306	20,176	92	1.09	3.54	9.11	38,916

**Nurseries: Number of operations and acres, by county
and Michigan Department of Agriculture region, 1999-2004**

County and MDA region	Operations		Acres	
	1999	2004	1999	2004
Chippewa		3		30
Menominee	3	8	20	120
Other counties ¹	14	15	210	340
Region 1	17	26	230	490
Alcona	4	7	80	195
Alpena		8		95
Antrim	15	18	90	220
Benzie	3	9	10	20
Charlevoix	4	5	20	20
Cheboygan	6	9	25	45
Emmett	6	8	170	80
Grand Traverse	12	14	20	75
Kalkaska	7	5	170	10
Leelanau	9	19	45	100
Manistee	11	12	100	100
Missaukee	5	7	105	345
Wexford	6	7	20	25
Other counties ¹	8	8	35	50
Region 2	96	136	890	1,380
Ionia	9	13	95	100
Kent	41	46	360	345
Lake	3	4	135	10
Mason	12	12	310	315
Mecosta	4		45	
Montcalm	16	18	465	885
Muskegon	8	9	135	70
Newaygo	11	17	130	145
Oceana	9	6	95	85
Osceola	6		70	
Ottawa	81	93	4,800	4,115
Other counties ¹		5		170
Region 3	200	223	6,640	6,240
Arenac	4	5	25	15
Bay	8	15	135	170
Genesee	41	37	330	220
Huron	6	8	25	35
Iosco	3		10	
Isabella	10	11	195	190
Lapeer	31	34	385	365
Midland	6	6	15	25
Ogemaw	3		35	
Saginaw	26	25	270	220
Sanilac	12	11	300	310
Tuscola	6	11	30	85
Other counties ¹	5	12	45	65
Region 4	161	175	1,800	1,700

See footnote(s) at end of table.

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**Nurseries: Number of operations and acres, by county and
Michigan Department of Agriculture region, 1999-2004 (continued)**

County and MDA region	Operations		Acres	
	1999	2004	1999	2004
Allegan	50	60	2,440	3,240
Barry	5	8	30	20
Berrien	59	53	860	810
Branch	3	7	5	370
Calhoun	21	20	170	130
Cass	16	17	75	170
Kalamazoo	28	34	200	230
St. Joseph	11	13	60	500
Van Buren	33	26	610	470
Region 5	226	238	4,450	5,940
Clinton	25	31	245	230
Eaton	22	26	225	220
Gratiot	6	5	25	15
Hillsdale	8	4	15	15
Ingham	25	40	415	880
Jackson	17	27	260	270
Lenawee	14	22	130	160
Livingston	43	44	640	630
Shiawassee	14	15	95	340
Washtenaw	49	56	400	370
Region 6	223	270	2,450	3,130
Macomb	28	27	435	550
Monroe	33	42	625	360
Oakland	54	50	300	390
St. Clair	21	22	325	210
Wayne	26	26	155	210
Region 7	162	167	1,840	1,720
Michigan	1,085	² 1,235	18,300	20,600

¹ Not published separately to avoid disclosure of individual operations.

² Includes 18 operations which produced only propagative materials.

**Christmas trees: Number of operations and acres,
by county and Michigan Department of Agriculture region**

County and MDA region	Operations			Acres		
	1997	2000	2005	1997	2000	2005
Chippewa	6	4	8	270	170	150
Delta	17	15	14	800	820	670
Dickinson	14	9	6	500	240	120
Luce	5	3		160	110	
Marquette	3	4	4	130	100	60
Menominee	31	36	35	1,600	1,800	1,400
Other counties ¹	9	9	13	740	760	600
Region 1	85	80	80	4,200	4,000	3,000
Alcona	8	5	7	360	280	350
Alpena	8	8	8	350	200	150
Antrim	16	17	16	2,000	1,200	1,050
Benzie	12	12	6	630	600	250
Cheboygan	21	18	15	1,100	1,000	750
Emmett	9	6	5	180	130	120
Grand Traverse	18	16	13	1,550	1,100	550
Kalkaska	35	27	15	5,100	3,300	1,650
Leelanau	17	13	13	520	370	380
Manistee	24	27	25	2,700	2,600	1,900
Missaukee	53	40	48	7,500	6,500	7,200
Otsego	9	5	4	220	60	90
Presque Isle	5	7	4	210	210	170
Wexford	47	41	36	8,500	7,300	3,800
Other counties ¹	3	3	5	80	50	90
Region 2	285	245	220	31,000	24,900	18,500
Kent	11	8	9	800	570	370
Lake	7	6	6	700	530	250
Mason	13	15	14	800	850	650
Mecosta	20	6	10	1,400	650	350
Montcalm	24	25	22	4,500	3,400	2,600
Muskegon	13	12	11	450	350	220
Newaygo	24	14	14	2,300	1,400	1,200
Oceana	74	55	40	6,000	4,500	4,000
Ottawa	25	16	12	1,100	450	310
Other counties ¹	29	28	22	3,450	2,700	1,350
Region 3	240	185	160	21,500	15,400	11,300
Arenac	4	7	5	230	160	110
Clare	7	3	4	300	120	80
Genesee	11	12	11	180	200	170
Gladwin	4	4	5	130	130	140
Iosco	8	7		200	110	
Isabella	23	14	12	750	400	430
Lapeer	12	11	10	250	200	250
Midland	4	5	9	160	150	190
Saginaw	15	14	12	380	350	340
Sanilac	8	6	6	360	360	350
Tuscola	12	9	6	600	260	190
Other counties ¹	12	8	15	260	260	200
Region 4	120	100	95	3,800	2,700	2,450

See footnote(s) at end of table.

**Christmas trees: Number of operations and acres, by county
and Michigan Department of Agriculture region (continued)**

County and MDA region	Operations			Acres		
	1997	2000	2005	1997	2000	2005
Allegan	21	29	21	2,900	2,500	1,900
Berrien	19	14	14	300	170	180
Calhoun	10	13	12	290	220	200
Cass	6	4	7	160	100	260
Kalamazoo	10	9	7	280	210	130
Van Buren	16	17	12	700	750	800
Other counties ¹	13	4	12	270	100	230
Region 5	95	90	85	4,900	4,050	3,700
Clinton	12	8	13	280	160	240
Eaton	14	15	14	240	270	260
Hillsdale	8	6	5	270	250	190
Ingham	13	13	14	280	310	340
Jackson	18	19	16	500	370	360
Livingston	15	13	11	310	290	210
Shiawassee	5	3	4	130	50	100
Washtenaw	10	10	11	350	250	250
Other counties ¹	5	5	3	90	50	50
Region 6	100	92	91	2,450	2,000	2,000
Monroe	6	5	11	140	130	210
Oakland	16	15	16	310	270	320
St. Clair	9	9	14	380	410	390
Other counties ¹	14	9	8	320	140	130
Region 7	45	38	49	1,150	950	1,050
Michigan	970	830	780	69,000	54,000	42,000

¹ Not published separately to avoid disclosure of individual operators.

Livestock, Dairy, and Poultry

Livestock: Record highs and lows

Livestock	Unit	Record high		Record low		Year estimates started
		Quantity	Year	Quantity	Year	
Cattle and calves	1,000 head	2,036	1944	538	1867	1867
Cattle on feed	1,000 head	210	2004	57	1931	1930
Chickens, all ¹	1,000 birds	15,512	1944	6,190	1997	1924
Cows, beef	1,000 head	239	1977	24	1925,1933	1920
Cows, milk	1,000 head	1,080	1945	225	1867	1867
Eggs ²	Million eggs	2,142	2005	1,104	1929	1924
Hogs and pigs ¹	1,000 head	1,397	1943	512	1934	1867
Honey	1,000 pounds	11,780	1939	4,355	2004	1921
Milk	Million pounds	6,735	2005	3,941	1927	1924
Sheep	1,000 head	3,100	1867	62	1999	1867
Wool	1,000 pounds	8,424	1934	430	1998	1934

¹ December 1.

² December 1 previous year to November 30.

Cattle and Calves

The January 1, 2006, Michigan cattle herd totaled 1,040,000 head, up 40,000 head from a year ago. The milk cow inventory, at 312,000 head, was up 5,000 from the previous year. Milk cow replacement heifers were up 17,000 at 137,000. Beef cows, at 108,000 head, were up 16 percent from last year. Calves on hand were at 195,000, up 15,000 from last year. Beef cow replacement heifers, at 31,000 head, were down 4,000 head. The 2005 calf crop was 355,000 head, up 20,000 from last year. Steer numbers were down 5,000 at 195,000 head. Other heifers decreased to 45,000 from 47,000, while bulls at 17,000 head were down by 1,000. Cattle

on full feed for slaughter totaled 190,000 head, unchanged from last year. Michigan has 14,400 operations with cattle, down 100 from a year ago.

The January 1 Michigan cattle and calf inventory was valued at \$1.27 billion, up 20 percent from January 1, 2005, which was \$1.06 billion. Cash receipts from cattle and calf marketings totaled \$272.9 million, while total liveweight marketed was 363.1 million pounds. The top 5 counties in cattle and calves in 2005 are Huron, Sanilac, Allegan, Clinton, and Ottawa.

Cattle and calves: Number of operations by size group, 2001-2005 ¹

Size group by head	2001	2002	2003	2004	2005
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
1-49 head	10,800	10,400	10,000	10,200	10,100
50-99 head	2,100	2,040	2,050	1,700	1,800
100-499 head	2,350	2,300	2,200	2,300	2,200
500-999 head	180	180	170	210	210
1000 + head	70	80	80	90	90
Total	15,500	15,000	14,500	14,500	14,400

¹ An operation is any place having one or more head of cattle on hand at any time during the year.

Cattle and calves: Number on farms by class, January 1, 2002-2006

Class	2002	2003	2004	2005	2006
	<i>1,000 head</i>				
All cows that have calved	370	390	385	400	420
Beef cows	71	89	85	93	108
Milk cows	299	301	300	307	312
Heifers, 500 pounds and over	210	212	211	202	213
Beef cow replacement	30	35	30	35	31
Milk cow replacement	135	135	130	120	137
Other	45	42	51	47	45
Steers, 500 pounds and over	195	195	215	200	195
Bulls, 500 pounds and over	17	18	19	18	17
Calves, under 500 pounds	198	175	200	180	195
All cattle and calves	990	990	1,030	1,000	1,040

Cattle and calves: Production and income, 2001-2005

Year	Production ¹	Marketings ²	Average price per cwt		Value of production	Cash receipts ⁴	Value of home consumption	Gross income
			All beef ³	Calves				
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2001	353,634	376,750	58.80	109.00	204,736	227,930	7,467	235,397
2002	363,562	363,540	54.20	104.00	191,624	204,628	6,894	211,522
2003	333,635	324,896	63.00	92.50	213,932	207,722	7,795	215,517
2004	373,604	404,800	68.70	109.00	250,766	282,708	8,600	291,308
2005	364,909	363,115	73.20	132.00	260,530	272,877	9,257	282,134

¹ Adjustments made for changes in inventory and for inshipments.

² Excludes custom slaughter for use on farms where produced and inter-farm sales within the State.

³ Combined price for "Cows" and "Steers and Heifers".

⁴ Receipts from marketings and sale of farm slaughter.

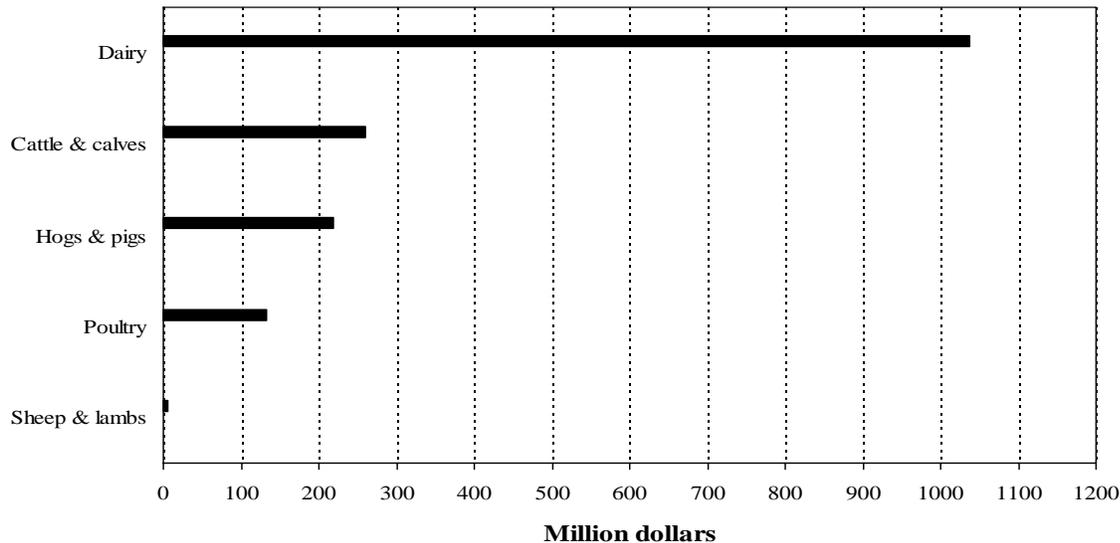
Cattle and calves: Balance sheet, 2001-2005

Year	All cattle and calves on hand January 1	Calf crop	Inshipments	Marketings ¹		Farm slaughter cattle and calves ²	Deaths		All cattle and calves on hand following January 1
				Cattle	Calves		Cattle	Calves	
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2001	980	335	50	266	36	4	24	45	990
2002	990	340	41	264	40	4	25	48	990
2003	990	350	39	248	25	4	24	48	1,030
2004	1,030	335	43	304	28	4	24	48	1,000
2005	1,000	355	60	268	31	4	25	47	1,040

¹ Includes custom slaughter and state outshipments, but excludes inter-farm sales within the State.

² Excludes custom slaughter for farmers at commercial establishments.

Michigan Livestock: Value of Production, 2005



Dairy

Milk production in Michigan during 2005 was 6,735 million pounds, up 1 percent from 2004. Michigan ranked eighth nationally in milk production in 2005, accounting for 3.8 percent of U.S. production. Huron, Clinton, and Ottawa were the three top counties in milk production.

The annual average number of milk cows on Michigan farms during 2005 was 311,000 head, up 8,000 from 2004. The number of operations with milk cows fell to 2,800 from 2,900 in 2004. Milk

production per cow was 21,656 pounds in 2005, compared with 20,891 pounds during 2004. The average butterfat content was 3.61 percent, down from 3.63 in 2004.

Milk prices during the year averaged \$15.40 per cwt., down \$0.90 from 2004. Cash receipts from milk sales totaled \$1.03 billion, up 1 percent from 2004. Milk continued as the top ranked Michigan commodity in cash receipts.

Milk: Production, utilization, marketings, and value, 2001-2005

Item	Unit	2001	2002	2003	2004	2005
Production						
Total milk produced on farms	Million pounds	5,870	6,120	6,375	6,330	6,735
Milkfat produced	Million pounds	213.1	221.5	230.8	229.8	243.1
Milkfat	Percent	3.63	3.62	3.62	3.63	3.61
Utilization						
Milk used where produced						
Fed to calves	Million pounds	55	55	55	51	47
Used for milk, cream, and butter	Million pounds	5	5	5	4	3
Milk marketed by producers						
Average return per 100 pounds of milk	Dollars	15.20	12.10	12.60	16.30	15.40
Average return per pound milkfat	Dollars	4.19	3.34	3.48	4.49	4.27
Fluid grade	Percent	99	99	99	99	99
Total cash receipts	1,000 dollars	883,120	733,260	795,690	1,022,825	1,029,490
Value						
Value of milk used where produced ¹	1,000 dollars	9,120	7,260	7,560	8,965	7,700
Total value of milk produced	1,000 dollars	892,240	740,520	803,250	1,031,790	1,037,190

¹ Includes value of milk fed to calves and milk used by farm households.

Milk cows: Number of operations, by size group, 2001-2005 ¹

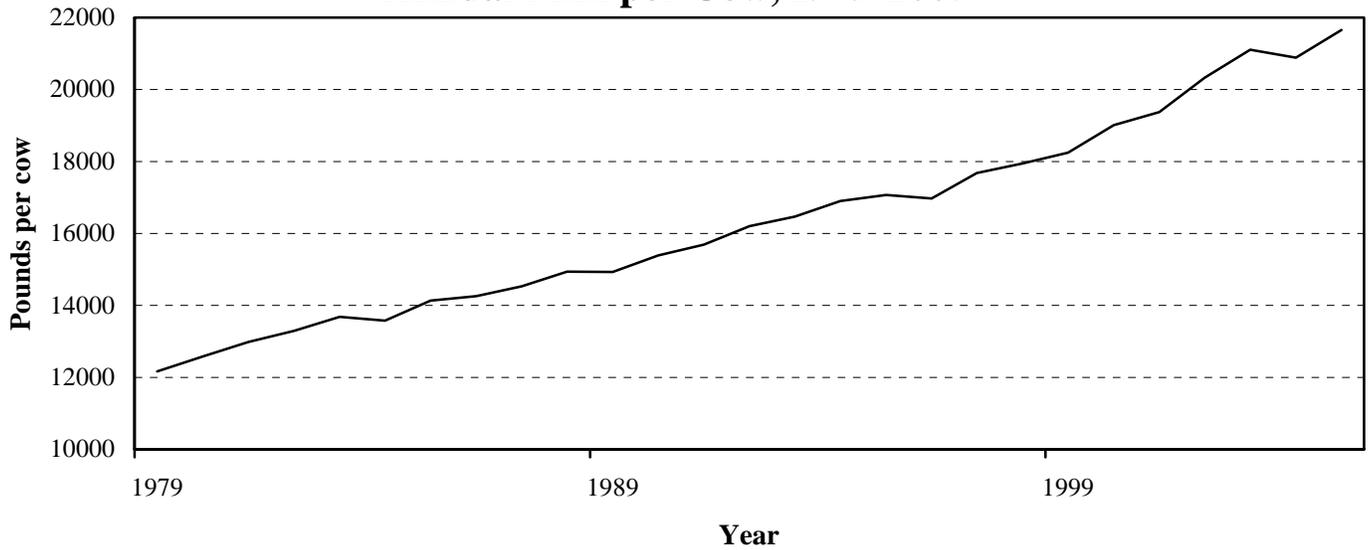
Size group by head	2001	2002	2003	2004	2005
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
1-29	1,050	1,050	1,000	950	870
30-49	550	500	450	440	420
50-99	800	750	700	660	660
100-199	620	590	550	540	510
200-499	215	240	220	225	245
500+	65	70	80	85	95
Total	3,300	3,200	3,000	2,900	2,800

¹ An operation is any place having one or more milk cows on hand at any time during the year.

Milk cows: Number by month, 2001-2005

Month	2001	2002	2003	2004	2005
	<i>1,000 head</i>				
January	303	300	302	300	306
February	303	301	302	300	308
March	304	301	302	300	309
April	304	301	301	301	311
May	304	301	301	302	312
June	305	300	302	302	313
July	303	301	304	303	313
August	303	302	304	303	314
September	303	302	304	303	313
October	302	302	304	304	313
November	301	302	302	306	312
December	299	301	301	307	312
Annual	303	301	302	303	311

Annual Milk per Cow, 1979-2005



Milk production: Total by month, 2001-2005

Month	2001	2002	2003	2004	2005
	<i>Million pounds</i>				
January	482	504	535	534	546
February	447	474	480	498	511
March	505	533	544	543	564
April	492	518	521	531	569
May	518	537	539	547	597
June	505	503	529	530	574
July	498	519	558	542	579
August	489	515	549	532	575
September	476	488	534	506	548
October	483	507	546	526	560
November	474	498	506	508	544
December	501	524	531	533	568
Annual	5,870	6,120	6,375	6,330	6,735

Milk: Production per cow, by month, 2001-2005

Month	2001	2002	2003	2004	2005
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
January	1,590	1,680	1,770	1,780	1,785
February	1,475	1,575	1,595	1,660	1,660
March	1,660	1,770	1,805	1,810	1,825
April	1,620	1,720	1,730	1,765	1,830
May	1,705	1,785	1,790	1,810	1,915
June	1,655	1,675	1,750	1,755	1,835
July	1,645	1,725	1,835	1,790	1,850
August	1,615	1,705	1,805	1,755	1,830
September	1,570	1,615	1,755	1,670	1,750
October	1,600	1,680	1,795	1,730	1,790
November	1,575	1,650	1,675	1,660	1,745
December	1,675	1,740	1,765	1,735	1,820
Annual	19,373	20,332	21,109	20,891	21,656

Dairy Products, East North Central Region, 2001-2005 ¹

Product	2001	2002	2003	2004	2005
	<i>Million pounds</i>				
Cheese, total ²	2,545.3	2,657.7	2,697.1	2,777.8	2,850.6
Cheese, American type ³	876.3	907.7	875.0	903.8	920.2
Cheese, Italian	1,123.7	1,149.2	1,205.5	1,216.5	1,242.8
Butter	368.2	388.2	345.7	340.9	410.1
Cottage cheese, lowfat	81.2	81.7	81.8	66.2	57.7
Cottage cheese, creamed	102.1	95.2	101.2	98.3	96.6
Cottage cheese curd	111.9	103.7	107.4	98.0	89.4
Yogurt, plain and flavored	818.9	816.8	759.8	913.0	954.2
Condensed skim milk, unsweetened, bulk	122.6	169.5	144.2	150.4	177.6
Nonfat dry milk for human food	48.5	52.9	48.3	35.6	55.1
	<i>1,000 gallons</i>				
Ice cream, regular, total	193,108	201,164	204,992	197,644	194,712
Ice cream, lowfat, total	96,071	96,263	102,436	110,475	113,775
Sherbet, hard	9,476	9,563	10,455	9,910	11,337
Frozen yogurt mix	5,862	5,762	4,944	4,294	4,152
Ice cream mix, regular	95,004	103,476	100,873	99,107	95,941
Ice cream mix, lowfat	52,183	53,331	56,440	62,374	63,829
Sherbet mix	6,046	6,118	6,615	6,272	7,240

¹ Illinois, Indiana, Michigan, Ohio, and Wisconsin.

² Excluding cottage cheese.

³ Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

Hogs and Pigs

Michigan hog production totaled 470.5 million pounds in 2005, down 2.6 percent from 2004. Based on the December 1, 2005 inventory of 960,000 hogs and pigs, Michigan ranked thirteenth in the nation in terms of inventory.

Breeding inventory accounted for 10.4 percent of the total inventory, while market hogs made up the remaining 89.6 percent. Historically, Cass, Allegan, Ottawa, Branch and Huron have been the top five hog producing counties.

The annual average price for all hogs was \$46.70 per cwt for 2005, compared with the 2004 average price of \$45.90 per cwt.

Marketings of all hogs and pigs totaled 478.7 million pounds in 2005, down 4.7 percent from 2004. Cash receipts decreased 2.6 percent from the previous year to \$229.9 million.

Hogs and pigs: Number of operations, by size group, 2001-2005¹

Year	Operations						
	1-99	100-499	500-999	1,000-1,999	2,000-4,999	5,000+	Total
	<i>Number</i>						
2001	1,700	430	90	110	130	40	2,500
2002	1,500	450	90	100	120	40	2,300
2003	1,500	380	80	100	100	40	2,200
2004	1,500	270	90	90	110	40	2,100
2005	1,600	270	90	80	120	40	2,200

¹ An operation is any place having one or more head on hand at any time during the year.

Hogs and pigs: Sows farrowing and pig crop, 2001-2006

Year	December-February ¹			March-May		
	Sows farrowing	Pigs per litter	Pig crop	Sows farrowing	Pigs per litter	Pig crop
	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>head</i>	<i>1,000 head</i>
2002	50	9.00	450	49	8.85	434
2003	45	8.80	378	46	9.00	414
2004	44	8.90	401	44	9.10	400
2005	44	9.00	396	45	9.00	405
2006	48	9.30	446	46	9.20	423
	June-August			September-November		
2001	52	9.10	473	46	9.15	421
2002	54	9.05	489	42	9.10	382
2003	47	9.00	423	51	8.80	449
2004	48	9.20	442	46	9.20	423
2005	48	9.25	444	47	9.20	432

¹ December of previous year.

Hogs and pigs: Inventory, 2002-2006

Month and year	Market hogs and pigs					Breeding stock	Total hogs and pigs
	Under 60 pounds	60-119 pounds	120-179 pounds	180 lbs and over	Total market		
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
March 1							
2002	310	215	165	150	840	120	960
2003	270	190	165	145	770	100	870
2004	300	205	175	150	830	100	930
2005	325	190	160	145	820	100	920
2006	315	200	175	170	860	100	960
June 1							
2002	310	205	155	140	810	110	920
2003	310	210	165	145	830	100	930
2004	300	200	170	145	815	95	910
2005	310	200	155	145	810	100	910
2006	325	195	170	170	860	100	960
September 1							
2002	315	210	160	135	820	120	940
2003	300	210	165	145	820	100	920
2004	320	200	170	150	840	100	940
2005	320	195	165	150	830	100	930
December 1							
2002	285	180	155	150	770	100	870
2003	300	205	175	160	840	110	950
2004	330	195	160	155	840	110	950
2005	315	205	175	165	860	100	960

Hogs and pigs: Production and income, 2001-2005

Year	Production ¹	Marketings ²	Average price per cwt	Value of production	Cash receipts ³	Value of home consumption	Gross income
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2001	491,070	499,800	41.70	200,748	212,599	1,695	214,294
2002	499,504	517,700	30.70	153,600	164,324	1,171	165,495
2003	478,977	484,225	35.00	165,113	173,671	443	174,114
2004	483,291	502,100	45.90	218,709	236,002	465	236,467
2005	470,520	478,725	46.70	218,969	229,852	474	230,326

¹ Adjustments made for changes in inventory and for inshipments.

² Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.

³ Receipts from marketing and sales of farm slaughter. Includes allowance for higher average price of outshipments of feeder pigs.

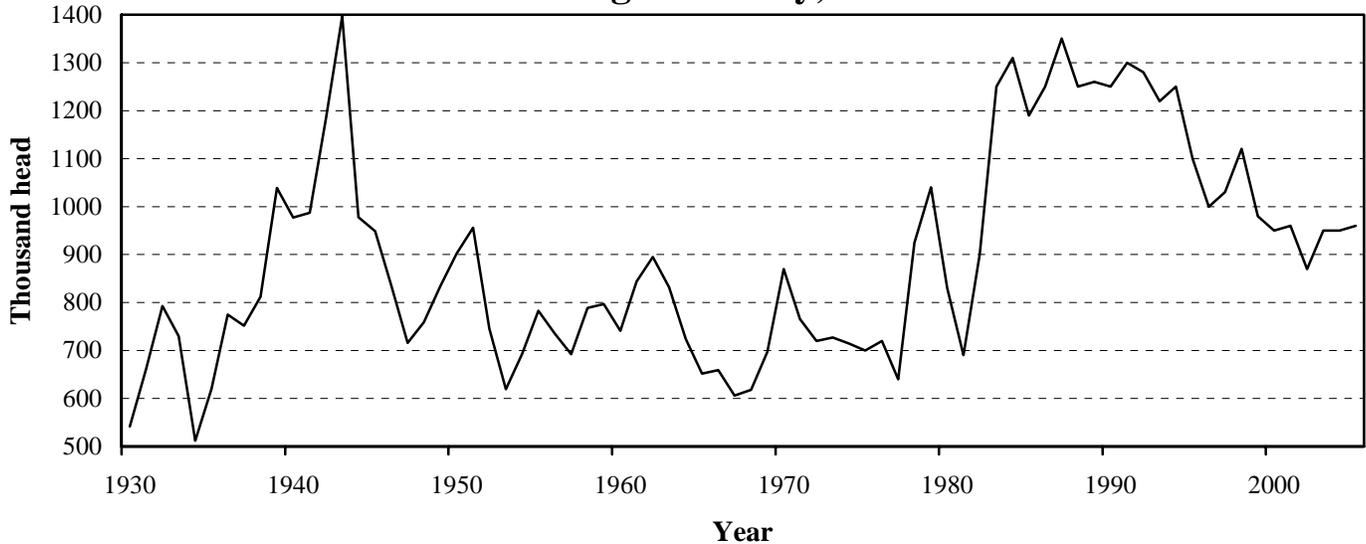
Hogs and pigs: Balance sheet, 2001-2005

Year	Beginning inventory	Dec-Nov pig crop	Inshipments	Marketings ¹	Farm slaughter ²	Deaths	Number on hand December 1
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2001	950	1,742	280	1,930	4	78	960
2002	960	1,755	240	2,011	4	70	870
2003	870	1,664	355	1,874	5	60	950
2004	950	1,666	345	1,939	4	68	950
2005	950	1,677	255	1,854	4	64	960

¹ Includes custom slaughter and state outshipments, but excludes sales within Michigan.

² Excludes custom slaughter for farmers at commercial establishments.

December 1 Hog Inventory, 1930-2005



Honey

Michigan honey production for 2005 totaled 4.4 million pounds, up 1 percent from 2004. This estimate included honey from producers with 5 or more colonies. Michigan ranked ninth in honey production in 2005, up from eleventh in 2004. There were 65,000 colonies producing honey, with an average yield per colony of 68 pounds, up 1 percent from 2004.

Michigan honey price averaged \$0.99 per pound, down 13 percent from last year. Value of production totaled \$4.38 million, down 12 percent from 2004. Honey stocks were 2.52 million pounds, up 3 percent from 2004.

Honey: Production and value, 2001-2005¹

Year	Honey producing colonies	Yield per colony	Production	Price per pound	Value of production	Stocks Dec 15 ²
	<i>Thousands</i>	<i>Pounds</i>	<i>1,000 pounds</i>	<i>Cents</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>
2001	76	60	4,560	81	3,694	2,827
2002	72	77	5,544	140	7,762	1,885
2003	65	74	4,810	141	6,782	1,732
2004	65	67	4,355	114	4,965	2,439
2005	65	68	4,420	99	4,376	2,519

¹ Includes only producers with 5 or more colonies.

² Stocks held by producers.

Mink

Mink: Farms, pelts produced and females bred to produce kits, 2002-2006

Year	2002	2003	2004	2005	2006
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Farms	9	8	7	7	(¹)
Pelts produced	57,000	51,000	50,500	55,500	(¹)
Females bred to produce kits	12,700	11,600	11,700	11,500	12,100

¹ Published in July 2007.

Poultry

The total value of poultry production in Michigan from eggs, turkeys, and other chickens (primarily culled layers) during 2005 was \$132.4 million, down 19 percent from a year earlier. The value of egg production totaled \$61.9 million, down 34 percent from 2004. Egg production totaled 2.1 billion eggs, up 7 percent from last year. The market egg price averaged 35 cents per dozen, down 21

cents from 2004. The value of turkey production during 2005 was \$70.5 million, up 1 percent. The total pounds of turkey produced was 176 million, down 6 percent. The average price per pound was 40 cents, up 3 cents from last year. Chickens sold was at 5.1 million birds in 2005, up 19 percent from last year.

Chickens: Layers on hand, December 1, 2001-2005

Class	2001	2002	2003	2004	2005
	<i>1,000 head</i>				
Total layers	6,854	6,951	7,067	7,720	8,357
Layers, 1 year old and older	4,491	5,149	5,272	(¹)	(¹)
Layers, 20 weeks old but less than 1 year	2,363	1,802	1,795	(¹)	(¹)
Pullets not of laying age	1,370	1,370	2,589	1,615	1,752
Pullets, 13-20 weeks old	385	606	1,203	(¹)	(¹)
Pullets, less than 13 weeks	985	764	1,386	(¹)	(¹)
Other chickens	1		1	1	1
All chickens (excluding broilers)	8,225	8,321	9,657	9,336	10,110

¹ Estimates no longer published.

Turkeys: Production and value, 2003-2005¹

Year	Number raised ²	Pounds produced	Price per pound ³	Value of production
	<i>Thousands</i>	<i>1,000 pounds</i>	<i>Cents</i>	<i>1,000 dollars</i>
2001	4,500	162,000	35.0	56,700
2002	4,800	179,520	35.0	62,832
2003	5,000	191,000	36.0	68,760
2004	5,000	188,000	37.0	69,560
2005	4,700	176,250	40.0	70,500

¹ December 1 previous year through November 30.

² Based on turkeys placed Sep 1 through Aug 31. Excludes young turkeys lost.

³ Equivalent live weight returns to producers.

All eggs: Production and value, 2001-2005

Year	Eggs produced	Price per dozen	Value of production
	<i>Million</i>	<i>Dollars</i>	<i>1,000 dollars</i>
2001	1,706	0.437	61,063
2002	1,880	0.403	63,237
2003	1,888	0.595	93,613
2004	2,009	0.563	94,313
2005	2,142	0.347	61,870

All egg production, by month, 2001-2005

Month	2001	2002	2003	2004	2005
	<i>Million eggs</i>				
December	145	153	162	165	174
January	142	148	160	162	163
February	129	139	147	150	160
March	152	159	161	166	185
April	146	157	152	167	176
May	144	162	160	172	188
June	142	157	156	170	187
July	143	166	158	175	186
August	136	167	159	172	179
September	131	156	155	164	177
October	145	160	162	171	182
November	151	156	159	175	185
Total ¹	1,706	1,880	1,888	2,009	2,142

¹ Sum of months may not add to total due to rounding.

All layers: Average number on hand during the month, 2001-2005

Month	2001	2002	2003	2004	2005
	<i>1,000 head</i>				
December	6,270	6,926	7,243	7,295	7,482
January	6,234	6,933	7,198	7,447	7,389
February	6,435	6,888	7,220	7,424	7,869
March	6,820	6,938	7,074	7,481	8,017
April	6,922	7,296	6,934	7,397	7,954
May	6,763	7,452	7,121	7,309	8,018
June	6,657	7,236	7,128	7,476	8,024
July	6,490	7,265	7,079	7,652	8,022
August	6,489	7,243	7,088	7,587	7,944
September	6,593	7,106	6,942	7,626	7,798
October	6,687	7,039	6,869	7,613	7,770
November	6,779	6,983	6,959	7,603	8,117
Annual ¹	6,595	7,109	7,058	7,493	7,867

¹ December 1 previous year through November 30.

Sheep and Goats

Michigan sheep operations in 2005 numbered 2,000, unchanged from 2004. All sheep and lamb inventory in Michigan on January 1, 2006 was estimated at 88,000 head, up 5,000 head from the previous year. The breeding sheep inventory was 66,000 head. Market sheep and lambs totaled 22,000 head, down 2,000 from the previous year. The 2005 Michigan lamb crop (lambs born October 1, 2004 through September 30, 2005) was 59,000 head, up 4,000 from a year ago.

Sheep and lamb value of production was \$5.03 million for 2005. Cash receipts totaled \$4.13 million. All sheep and lambs were valued at \$148 per head, up \$3 from the previous year.

Sheep shorn in 2005 totaled 81,000 head. The weight per fleece was 5.9 pounds, compared with 5.8 pounds in 2004. Total wool production in Michigan was 480,000 pounds. Wool production was valued at \$187,000. The average price per pound was \$0.39, down \$0.06 from 2004.

Sheep and lambs: Number on farms by class, January 1, 2002-2006

Class	2002	2003	2004	2005	2006
	<i>1,000 Head</i>				
Breeding sheep 1 year and older					
Ewes	40	47	43	45	46
Rams	3	3	3	2	3
Replacement lambs	12	14	13	12	17
Total market sheep and lambs	20	21	24	24	22
All sheep and lambs	75	85	83	83	88

Sheep and lambs: Number of operations, 2001-2005 ¹

Year	Number
2001	1,800
2002	2,000
2003	2,100
2004	2,000
2005	2,000

¹ An operation is any place having one or more head on hand at any one time during the year.

Sheep and lambs: Lamb crop, 2001-2005

Year	Breeding ewes ¹	Lambs per 100 ewes ¹	Lamb crop
	<i>1,000 Head</i>	<i>Number</i>	<i>1,000 Head</i>
2001	40	125	50
2002	40	150	60
2003	47	128	60
2004	43	128	55
2005	45	131	59

¹ Ewes 1 year and older January 1.

Sheep and lambs: Balance sheet, 2001-2005

Year	All sheep and lambs on hand January 1	Lamb crop	Inshipments	Marketings ¹		Farm slaughter ²	Deaths		All sheep and lambs on hand following January 1
				Sheep	Lambs		Sheep	Lambs	
	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>	<i>1,000 Head</i>
2001	71	50	1.5	5.5	29.5	2.0	3.5	7.0	75
2002	75	60	3.0	3.0	37.0	2.0	4.0	7.0	85
2003	85	60	4.0	15.5	36.0	2.0	4.5	8.0	83
2004	83	55	3.0	12.0	35.0	2.0	3.0	6.0	83
2005	83	59	2.0	7.0	35.0	2.0	4.0	8.0	88

¹ Includes custom slaughter and state outshipments, but excludes sales within Michigan.

² Excludes custom slaughter for farmers at commercial establishments.

Sheep and lambs: Production and income, 2001-2005

Year	Production ¹	Marketings ²	Average price per cwt		Value of production	Cash receipts ³	Value of home consumption	Gross income
			Sheep	Lambs				
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>Dollars</i>	<i>Dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2001	4,515	3,653	31.00	70.00	2,901	2,321	403	2,724
2002	5,604	4,129	26.00	70.00	3,501	2,794	403	3,197
2003	4,662	4,927	35.00	86.00	3,840	3,660	495	4,155
2004	4,722	4,532	40.00	94.00	4,119	3,800	540	4,340
2005	5,240	4,275	45.00	105.00	5,025	4,132	604	4,736

¹ Adjustments made for changes in inventory and for inshipments.

² Excludes custom slaughter for use on farms where produced and inter-farm sales within the state.

³ Receipts from marketings and sale of farm slaughter.

Sheep and lambs: Wool production and value, 2001-2005

Year	Sheep shorn	Weight per fleece	Production	Price per pound	Value of production ¹
	<i>1,000 Head</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>Cents</i>	<i>1,000 Dollars</i>
2001	77	6.2	480	12	58
2002	81	6.5	525	14	74
2003	77	6.2	475	30	143
2004	76	5.8	440	45	198
2005	81	5.9	480	39	187

¹ Production multiplied by marketing year average price.

Goats: Number by class, January 1, 2005-2006

Year	Angora	Milk	Meat and other
	<i>Head</i>	<i>Head</i>	<i>Head</i>
2005	1,000	7,500	9,200
2006	1,000	8,000	10,000

Trout

Michigan's 20 commercial trout operations sold \$793,000 of trout in 2005. This was a slight increase from last season.

Trout 12 inches or longer had sales of 295,000 pounds with an average liveweight of 1.2 pounds per fish. Sales of trout 12 inches or longer were valued at \$634,000 for an average value of \$2.15 per pound. The major sales outlets were fee fishing operations at 47 percent of the total, 20 percent to live haulers, and 8 percent direct to consumers.

For trout between 6 and 12 inches and between 1 and 6 inches, information was not published separately to avoid disclosure of individual operations.

Losses of trout in Michigan amounted to 109,000 fish, weighing 43,000 pounds. Fish lost to disease accounted for 26 percent of all fish lost. Losses to predators amounted to 15 percent of the total.

Trout: Sales by size category, 2001-2005

Size category	Number of fish sold	Live weight	Sales	
			Total	Average per pound ¹
	<i>1,000</i>	<i>1,000</i>	<i>1,000 dollars</i>	<i>Dollars</i>
12 inches or longer				
2001	275	330	660	2.00
2002	180	215	553	2.57
2003	250	275	564	2.05
2004	285	305	601	1.97
2005	255	295	634	2.15
6 to 12 inches				
2001	110	42	116	2.75
2002	90	30	83	2.77
2003	(²)	(²)	(²)	(²)
2004	165	65	167	2.57
2005	(²)	(²)	(²)	(²)
1 to 6 inches				
2001	170	4	47	275.00
2002	100	3	27	266.00
2003	(²)	(²)	(²)	(²)
2004	55	3	22	408.00
2005	(²)	(²)	(²)	(²)

¹ Price for fish 1 to 6 inches is average per 1,000 fish.

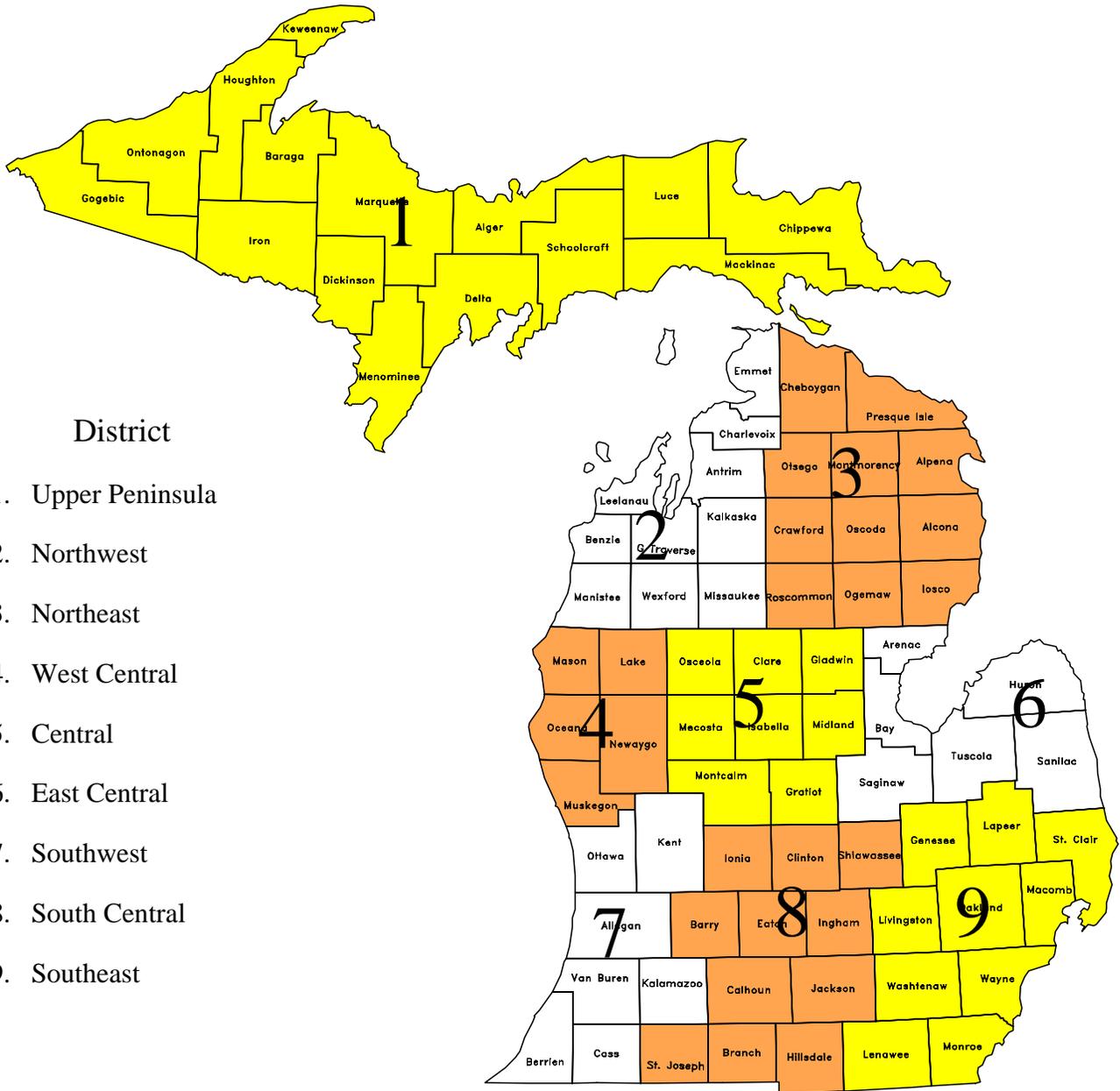
² Not published separately to avoid disclosure of individual operations.

Trout: Number of operations, 2002-2006

Year	Operations
	<i>Number</i>
2002	33
2003	22
2004	18
2005	28
2006	20

Agricultural Statistics Districts

The State is divided into nine Agricultural Statistics Districts to make data comparison easier. An Agricultural Statistics District is a contiguous group of counties having relatively similar agricultural characteristics. Each district has within it more homogeneous agriculture than the State as a whole. They are numbered from north to south and west to east.



- District
1. Upper Peninsula
 2. Northwest
 3. Northeast
 4. West Central
 5. Central
 6. East Central
 7. Southwest
 8. South Central
 9. Southeast

Principal counties for field crops, 2005 ¹

Rank	Corn for grain	Dry beans	Hay ²	Oats	Soybeans	Sugarbeets	Wheat
1	Lenawee	Huron	Sanilac	Sanilac	Sanilac	Huron	Huron
2	Huron	Tuscola	Huron	Montcalm	Lenawee	Sanilac	Sanilac
3	Sanilac	Bay	Isabella	Isabella	Gratiot	Tuscola	Lenawee
4	Saginaw	Sanilac	Barry	Shiawassee	Monroe	Saginaw	Tuscola
5	Tuscola	Gratiot	Ionia	Huron	Saginaw	Bay	Saginaw

¹Based on total production.

²Based on 2004 production.

Principal counties for livestock ¹

Rank	January 1, 2006 Cattle and Calves	December 1, 2005 Hogs and pigs	January 1, 2006 Milk cows
1	Huron	Cass	Huron
2	Sanilac	Allegan	Clinton
3	Allegan	Ottawa	Allegan
4	Clinton	Branch	Sanilac
5	Ottawa	Huron	Newaygo

¹Based on number of head.

Principal counties for fruit and vegetables, 2005 ¹

Rank	Apples	Blueberries	Grapes	Tart Cherries	Asparagus	Cucumbers, processing	Snap beans, processing
1	Kent	Van Buren	Berrien	Leelanau	Oceana	Van Buren	St. Joseph
2	Berrien	Ottawa	Van Buren	Oceana	Mason	Gratiot	Kalamazoo
3	Ottawa, Van Buren	Allegan	Grand Traverse	Grand Traverse	Van Buren	Saginaw	Montcalm
4	Oceana	Berrien	Leelanau	Antrim	Cass	St. Joseph	Mason
5	Muskegon	Muskegon		Mason	Manistee	Allegan	Cass

¹Based on acres from rotational surveys.

Barley: Acreage, yield, and production, by county, 2004-2005 ¹

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Delta	1,300	1,200	57	68	1,300	1,000	33	33
Menominee	1,850	1,600	54	86	1,800	1,100	37	41
Other counties ²	2,050	1,700	48	81	2,100	1,700	39	66
Upper Peninsula	5,200	4,500	52	235	5,200	3,800	37	140
Alpena	650	600	62	37	600	500	44	22
Other counties ²	1,850	1,700	51	86	2,000	1,600	47	75
Northeast	2,500	2,300	53	123	2,600	2,100	46	97
Isabella					700	600	77	46
Other counties ²					900	800	59	47
Central	1,100	800	55	44	1,600	1,400	66	93
East Central	1,300	1,100	64	70	1,600	1,000	55	55
Southwest	600	400	28	11				
South Central	1,600	1,500	43	65	1,600	1,100	55	60
Southeast	1,100	800	46	37	1,000	700	51	36
Other districts ²	600	600	45	27	1,400	900	40	36
Michigan	14,000	12,000	51	612	15,000	11,000	47	517

¹ Estimates not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Corn: Acreage, yield, and production, by county, 2004¹

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Delta	3,600	1,600	59	95	1,700	8.8	15,000
Menominee	14,400	4,900	82	400	9,100	13.7	125,000
Other counties ²	3,000	500	90	45	2,200	13.6	30,000
Upper Peninsula	21,000	7,000	77	540	13,000	13.1	170,000
Antrim	3,500	2,700	119	320			
Benzie	1,800	1,300	100	130			
Charlevoix	2,700	2,000	108	215			
Emmet	1,600	1,000	80	80	600	10.0	6,000
Grand Traverse	6,400	5,100	81	415	1,200	12.5	15,000
Manistee	900	600	93	56			
Missaukee	15,700	7,200	97	695	7,400	14.2	105,000
Wexford	3,700	2,700	99	267	900	11.1	10,000
Other counties ²	3,700	2,900	94	272	2,900	15.2	44,000
Northwest	40,000	25,500	96	2,450	13,000	13.8	180,000
Alpena	5,600	3,800	92	350	1,600	14.4	23,000
Iosco	6,600	3,900	92	360	2,500	15.2	38,000
Montmorency	2,000	1,500	100	150			
Ogemaw	9,200	5,800	80	465	3,000	14.0	42,000
Otsego	1,000	650	92	60			
Presque Isle	6,000	5,100	92	470			
Other counties ²	3,600	1,750	77	135	2,900	16.2	47,000
Northeast	34,000	22,500	88	1,990	10,000	15.0	150,000
Muskegon	18,000	11,800	84	990	5,900	17.3	102,000
Newaygo	26,500	15,900	91	1,450	9,700	14.1	137,000
Oceana	10,500	9,300	84	785	1,100	13.2	14,500
Other counties ²	10,000	6,000	79	475	3,300	14.1	46,500
West Central	65,000	43,000	86	3,700	20,000	15.0	300,000
Clare	4,000	2,100	86	180	1,800	11.7	21,000
Gladwin	6,500	5,400	113	610			
Gratiot	79,000	69,200	125	8,650	9,500	21.6	205,000
Isabella	33,000	25,400	119	3,030	7,100	16.9	120,000
Mecosta	20,000	16,200	102	1,650	3,500	14.0	49,000
Midland	21,000	19,700	122	2,410			
Montcalm	54,000	46,700	120	5,620	7,000	19.3	135,000
Osceola	7,500	3,300	106	350	4,100	13.9	57,000
Other counties ²					2,000	16.5	33,000
Central	225,000	188,000	120	22,500	35,000	17.7	620,000
Arenac	16,000	12,300	110	1,350	3,500	13.7	48,000
Bay	46,000	43,500	132	5,750			
Huron	121,000	96,600	139	13,400	24,000	19.8	475,000
Saginaw	86,000	80,100	131	10,500	5,400	17.0	92,000
Sanilac	94,000	75,200	139	10,450	18,400	19.6	360,000
Tuscola	87,000	83,300	145	12,050			
Other counties ²					5,700	14.9	85,000
East Central	450,000	391,000	137	53,500	57,000	18.6	1,060,000

See footnote(s) at end of table.

--continued

Corn: Acreage, yield, and production, by county, 2004¹ (continued)

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Allegan	83,000	70,300	150	10,550	12,500	25.2	315,000
Berrien	43,000	41,600	143	5,950			
Cass	69,000	68,000	140	9,550			
Kalamazoo	50,000	47,000	138	6,500	2,900	18.3	53,000
Kent	40,000	34,100	129	4,400	5,800	19.0	110,000
Ottawa	44,000	34,000	126	4,300	9,700	16.0	155,000
Van Buren	31,000	29,000	133	3,850			
Other counties ²					4,100	18.8	77,000
Southwest	360,000	324,000	139	45,100	35,000	20.3	710,000
Barry	39,000	29,200	151	4,400	9,600	22.9	220,000
Branch	81,000	78,500	134	10,500	2,400	19.2	46,000
Calhoun	72,000	67,700	139	9,400	4,200	20.0	84,000
Clinton	70,000	56,300	144	8,100	12,800	20.3	260,000
Eaton	55,000	53,300	153	8,150	1,600	15.6	25,000
Hillsdale	68,000	62,900	135	8,500	4,900	21.4	105,000
Ingham	48,000	45,100	159	7,150	2,700	17.8	48,000
Ionia	73,000	62,500	146	9,150	10,200	20.6	210,000
Jackson	52,000	48,600	133	6,450	3,100	18.7	58,000
St Joseph	81,000	79,800	130	10,400	1,100	18.2	20,000
Shiawassee	51,000	46,100	132	6,100	4,400	12.3	54,000
South Central	690,000	630,000	140	88,300	57,000	19.8	1,130,000
Genesee	27,000	24,700	109	2,700	2,100	16.7	35,000
Lapeer	34,000	30,400	123	3,740	3,500	18.6	65,000
Lenawee	100,000	88,200	150	13,250	11,500	18.3	210,000
Livingston	20,000	19,000	132	2,500			
Macomb	11,000	10,200	130	1,330			
Monroe	59,000	57,900	145	8,400	1,000	21.0	21,000
St Clair	22,000	20,800	113	2,350			
Washtenaw	38,000	34,000	132	4,500	3,900	17.2	67,000
Other counties ²	4,000	3,800	113	430	3,000	17.3	52,000
Southeast	315,000	289,000	136	39,200	25,000	18.0	450,000
Michigan	2,200,000	1,920,000	134	257,280	265,000	18.0	4,770,000

¹ Estimates not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Corn: Acreage, yield, and production, by county, 2005 ¹

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Delta	3,400	2,000	93	185	1,400	8.6	12,000
Menominee	14,700	6,700	122	820	7,900	12.2	96,000
Other counties ²	2,900	1,100	95	105	1,700	12.9	22,000
Upper Peninsula	21,000	9,800	113	1,110	11,000	11.8	130,000
Antrim	3,300	2,800	111	310			
Benzie	1,600	1,300	104	135			
Charlevoix	2,900	2,400	92	220			
Emmet	1,400	1,000	95	95			
Grand Traverse	6,200	5,200	100	520			
Leelanau	2,600	2,200	82	180			
Missaukee	15,600	9,700	136	1,320	5,800	17.2	100,000
Wexford	4,100	3,300	112	370	800	13.8	11,000
Other counties ²	1,300	900	111	100	3,400	14.4	49,000
Northwest	39,000	28,800	113	3,250	10,000	16.0	160,000
Alcona	2,400	1,900	147	280			
Alpena	5,700	4,300	119	510	1,400	16.4	23,000
Iosco	7,300	5,300	142	750	2,000	15.0	30,000
Montmorency	2,000	1,700	124	210			
Ogemaw	9,400	6,900	152	1,050	2,400	17.5	42,000
Presque Isle	6,000	5,500	111	610			
Other counties ²	2,200	1,300	108	140	2,200	15.9	35,000
Northeast	35,000	26,900	132	3,550	8,000	16.3	130,000
Mason	12,000	9,500	132	1,250	2,400	16.3	39,000
Muskegon	18,500	11,200	113	1,270	7,100	15.2	108,000
Newaygo	27,500	18,200	105	1,920	9,200	12.7	117,000
Other counties ²	12,000	10,600	119	1,260	1,300	12.3	16,000
West Central	70,000	49,500	115	5,700	20,000	14.0	280,000
Clare	4,200	3,000	140	420	1,200	14.2	17,000
Gladwin	7,300	6,600	162	1,070			
Gratiot	85,000	77,200	144	11,150	7,400	20.3	150,000
Isabella	36,000	29,500	158	4,660	6,400	18.8	120,000
Mecosta	20,000	17,000	139	2,370	2,900	13.8	40,000
Midland	23,000	22,000	152	3,350			
Montcalm	57,000	52,200	135	7,070	4,600	20.0	92,000
Osceola	7,500	4,500	136	610	3,000	14.3	43,000
Other counties ²					1,500	18.7	28,000
Central	240,000	212,000	145	30,700	27,000	18.1	490,000
Arenac	18,000	15,700	148	2,320			
Bay	47,000	45,500	148	6,730			
Huron	112,000	92,300	160	14,750	19,500	20.5	400,000
Saginaw	93,000	88,700	139	12,350	4,100	19.8	81,000
Sanilac	90,000	77,800	161	12,500	12,000	21.3	255,000
Tuscola	85,000	82,000	148	12,150	2,800	13.9	39,000
Other counties ²					3,600	15.3	55,000
East Central	445,000	402,000	151	60,800	42,000	19.8	830,000

See footnote(s) at end of table.

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Corn: Acreage, yield, and production, by county, 2005 ¹ (continued)

County and district	Planted for all purposes	Grain			Silage		
		Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Tons</i>	<i>Tons</i>
Allegan	85,000	73,800	146	10,800	10,600	21.2	225,000
Berrien	43,000	41,500	123	5,110			
Cass	71,000	69,900	129	9,040	600	16.7	10,000
Kalamazoo	50,000	47,600	135	6,410			
Kent	43,000	37,000	138	5,090	5,700	14.9	85,000
Ottawa	44,000	34,100	113	3,840	9,500	11.6	110,000
Van Buren	34,000	31,100	134	4,160	2,500	14.0	35,000
Other counties ²					3,100	14.5	45,000
Southwest	370,000	335,000	133	44,450	32,000	15.9	510,000
Barry	40,000	32,300	135	4,350	7,500	19.3	145,000
Branch	81,000	78,600	141	11,100	2,100	21.4	45,000
Calhoun	73,000	69,000	135	9,320	3,700	17.8	66,000
Clinton	73,000	62,600	139	8,680	10,100	18.8	190,000
Eaton	58,000	56,200	145	8,170			
Hillsdale	69,000	64,000	151	9,650	4,700	19.8	93,000
Ingham	49,000	46,000	145	6,690	2,800	17.9	50,000
Ionia	76,000	66,200	142	9,420	9,500	20.0	190,000
Jackson	49,000	46,200	144	6,630	2,500	19.2	48,000
St Joseph	79,000	76,300	147	11,200			
Shiawassee	53,000	49,600	147	7,290	3,200	16.6	53,000
Other counties ²					3,900	17.9	70,000
South Central	700,000	647,000	143	92,500	50,000	19.0	950,000
Genesee	29,000	27,500	137	3,780	1,500	18.0	27,000
Lapeer	34,000	31,200	138	4,300	2,700	19.6	53,000
Lenawee	102,500	92,400	161	14,900	9,700	19.6	190,000
Livingston	20,000	19,000	135	2,570			
Macomb	11,500	11,000	150	1,650			
Monroe	61,000	60,100	163	9,800			
St Clair	28,500	27,200	138	3,740	1,200	18.3	22,000
Washtenaw	40,000	37,300	150	5,610	2,600	17.3	45,000
Other counties ²	3,500	3,300	136	450	2,300	14.3	33,000
Southeast	330,000	309,000	151	46,800	20,000	18.5	370,000
Michigan	2,250,000	2,020,000	143	288,860	220,000	17.5	3,850,000

¹ Estimates are not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Dry edible beans, all: Acreage, yield, and production, by county, 2004-2005 ¹

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>1,000 cwt</i>
Alcona					1,400	1,300	1,920	25
Alpena	1,400	1,300	1,310	17	1,200	1,200	1,500	18
Presque Isle	1,000	1,000	1,200	12	1,200	1,200	1,580	19
Other counties ²	1,700	1,200	1,250	15	500	500	1,200	6
Northeast	4,100	3,500	1,260	44	4,300	4,200	1,620	68
Gladwin					1,300	1,300	2,000	26
Gratiot	12,500	12,400	1,630	202	18,000	18,000	1,630	293
Isabella	3,300	3,200	1,340	43	3,700	3,700	1,920	71
Mecosta					1,200	1,200	1,580	19
Midland	3,900	3,800	1,530	58	5,400	4,900	1,900	93
Montcalm	10,700	10,200	1,500	153	11,400	11,400	1,450	165
Other counties ²	2,600	2,400	1,500	36				
Central	33,000	32,000	1,540	492	41,000	40,500	1,650	667
Arenac	5,000	4,800	1,350	65	6,400	6,200	1,450	90
Bay	19,000	18,700	1,620	303	26,400	25,100	1,510	380
Huron	72,500	71,900	1,820	1,310	86,000	85,000	1,920	1,630
Saginaw	8,500	8,400	1,830	154	11,000	10,800	1,480	160
Sanilac	13,500	13,200	1,740	230	17,500	17,200	1,770	305
Tuscola	27,500	26,000	1,720	448	34,700	33,700	1,530	515
East Central	146,000	143,000	1,760	2,510	182,000	178,000	1,730	3,080
Southwest	2,500	2,400	1,670	40	2,000	1,900	1,790	34
South Central	1,800	1,700	1,410	24	2,100	2,000	1,250	25
St Clair					800	700	860	6
Other counties ²					1,000	1,000	1,400	14
Southeast	1,200	1,100	1,640	18	1,800	1,700	1,180	20
Other districts ²	1,400	1,300	1,310	17	1,800	1,700	940	16
Michigan	190,000	185,000	1,700	3,145	235,000	230,000	1,700	3,910

¹ Estimates not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Hay: Acreage, yield, and production, by county, 2004-2005 ¹

County and district	2004			2005 ²		
	Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>
Alger	4,200	1.7	7			
Baraga	4,200	1.7	7			
Chippewa	33,800	1.5	51			
Delta	17,200	2.0	35			
Dickinson	5,300	1.9	10			
Houghton	4,600	1.7	8			
Iron	4,900	1.8	9			
Mackinac	6,900	2.3	16			
Marquette	4,100	2.0	8			
Menominee	26,000	2.3	60			
Ontonagon	10,200	1.8	18			
Schoolcraft	3,500	1.7	6			
Other counties ³	5,100	2.0	10			
Upper Peninsula	130,000	1.9	245			
Antrim	8,500	2.5	21			
Benzie	1,600	1.9	3			
Charlevoix	8,200	2.1	17			
Emmet	13,400	2.2	29			
Grand Traverse	13,000	2.5	32			
Kalkaska	3,900	1.5	6			
Leelanau	6,800	1.9	13			
Manistee	6,100	2.0	12			
Missaukee	20,000	2.9	57			
Wexford	8,500	2.4	20			
Northwest	90,000	2.3	210			
Alcona	14,000	2.5	35			
Alpena	23,500	2.2	52			
Cheboygan	14,400	1.6	23			
Iosco	11,800	2.2	26			
Montmorency	5,900	2.2	13			
Ogemaw	19,500	2.5	48			
Oscoda	3,600	2.2	8			
Otsego	8,500	2.0	17			
Presque Isle	12,000	2.5	30			
Other counties ³	1,800	1.7	3			
Northeast	115,000	2.2	255			
Lake	6,200	1.9	12			
Mason	16,100	3.0	49			
Muskegon	9,100	3.1	28			
Newaygo	27,200	3.3	89			
Oceana	16,400	2.9	47			
West Central	75,000	3.0	225			
Clare	19,400	2.6	51			
Gladwin	14,500	2.5	36			
Gratiot	11,000	3.1	34			
Isabella	34,500	3.3	113			
Mecosta	31,600	2.7	85			
Midland	5,000	2.6	13			
Montcalm	23,000	3.6	82			
Osceola	36,000	2.4	86			
Central	175,000	2.9	500			

See footnote(s) at end of table.

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Hay: Acreage, yield, and production, by county, 2004-2005 ¹ (continued)

County and district	2004			2005 ²		
	Harvested	Yield	Production	Harvested	Yield	Production
	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>
Arenac	8,400	2.5	21			
Bay	7,400	3.1	23			
Huron	44,800	3.6	160			
Saginaw	9,300	3.8	35			
Sanilac	47,500	3.8	179			
Tuscola	17,600	3.5	62			
East Central	135,000	3.6	480			
Allegan	19,800	3.7	73			
Berrien	5,000	3.4	17			
Cass	11,300	2.7	31			
Kalamazoo	7,100	3.5	25			
Kent	23,800	3.2	76			
Ottawa	18,000	3.6	65			
Van Buren	15,000	2.9	43			
Southwest	100,000	3.3	330			
Barry	28,000	3.9	110			
Branch	11,000	3.7	41			
Calhoun	13,000	3.4	44			
Clinton	20,500	4.1	85			
Eaton	13,000	4.0	52			
Hillsdale	15,000	3.9	59			
Ingham	16,000	4.3	68			
Ionia	21,000	4.3	90			
Jackson	18,500	4.1	75			
St Joseph	10,000	3.5	35			
Shiawassee	14,000	4.0	56			
South Central	180,000	4.0	715			
Genesee	9,300	3.1	29			
Lapeer	23,500	3.1	72			
Lenawee	12,500	3.6	45			
Livingston	8,300	2.9	24			
Macomb	3,100	2.9	9			
Monroe	4,700	3.8	18			
Oakland	5,700	2.8	16			
St Clair	15,200	2.8	42			
Washtenaw	16,600	3.1	52			
Wayne	1,100	2.7	3			
Southeast	100,000	3.1	310			
Michigan	1,100,000	2.97	3,270	1,150,000	2.86	3,290

¹ Estimates not published for counties with less than 500 acres.

² County estimates discontinued due to State budget reductions.

³ Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Oats: Acreage, yield, and production, by county, 2004-2005 ¹

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Chippewa	750	500	40	20	1,700	1,300	38	49
Delta	1,500	1,100	60	66	1,600	1,450	52	76
Dickinson	650	500	60	30	900	900	28	25
Menominee	1,600	900	50	45	2,800	1,300	35	45
Ontonagon	550	450	56	25	500	500	42	21
Other counties ²	2,450	1,950	64	124	2,500	2,150	48	104
Upper Peninsula	7,500	5,400	57	310	10,000	7,600	42	320
Grand Traverse	1,150	1,000	63	63	1,600	1,500	37	55
Leelanau					500	450	38	17
Missaukee	1,000	850	54	46				
Wexford	550	450	40	18	600	500	40	20
Other counties ²	1,800	1,500	55	83	2,800	1,850	48	88
Northwest	4,500	3,800	55	210	5,500	4,300	42	180
Alcona	700	450	60	27	900	650	85	55
Alpena	2,100	1,500	67	100	2,400	1,900	51	96
Iosco	1,400	1,200	75	90	1,700	1,400	79	110
Ogemaw	2,000	1,600	56	90	2,800	2,100	64	135
Otsego					600	550	49	27
Presque Isle	2,800	2,200	50	110	3,100	3,000	44	132
Other counties ²	1,000	850	51	43	1,000	900	39	35
Northeast	10,000	7,800	59	460	12,500	10,500	56	590
Mason	700	600	60	36	1,000	950	62	59
Newaygo	950	850	58	49	1,400	950	54	51
Oceana	800	600	80	48	900	850	61	52
Other counties ²	550	450	82	37	700	650	58	38
West Central	3,000	2,500	68	170	4,000	3,400	59	200
Clare	700	600	52	31	1,200	1,050	63	66
Gladwin	800	700	61	43	1,300	1,300	68	89
Gratiot	1,300	1,200	83	100	1,200	1,150	68	78
Isabella	2,600	2,300	78	180	2,700	2,400	71	170
Mecosta	2,100	1,900	53	100	1,900	1,500	39	58
Montcalm	3,900	3,400	59	200	3,400	3,100	46	143
Other counties ²	1,100	900	51	46	1,300	1,000	36	36
Central	12,500	11,000	64	700	13,000	11,500	56	640
Arenac	1,400	750	77	58	1,800	1,600	46	74
Bay					600	500	80	40
Huron	1,900	1,600	88	140	2,200	1,600	91	145
Saginaw					1,000	900	68	61
Sanilac	4,300	3,500	93	325	5,400	4,600	78	360
Tuscola	1,600	1,400	71	100	2,000	1,800	61	110
Other counties ²	1,300	1,150	84	97				
East Central	10,500	8,400	86	720	13,000	11,000	72	790

See footnote(s) at end of table.

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Oats: Acreage, yield, and production, by county, 2004-2005 ¹ (continued)

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Allegan	1,800	1,300	83	108	2,200	2,000	72	144
Cass	700	600	43	26				
Kalamazoo	1,000	850	60	51	700	550	82	45
Kent	1,350	900	74	67	1,900	1,500	73	110
Ottawa	1,550	1,200	76	91	1,500	1,400	54	76
Other counties ²	1,600	1,350	57	77	1,700	1,050	48	50
Southwest	8,000	6,200	68	420	8,000	6,500	65	425
Barry	700	600	72	43	1,000	800	79	63
Branch	700	600	68	41	600	500	58	29
Calhoun	1,500	1,400	59	82	1,500	1,400	54	76
Clinton	1,600	1,400	82	115	1,700	1,600	91	145
Eaton	1,400	1,300	77	100	1,400	950	75	71
Hillsdale	1,200	1,100	82	90	1,200	850	53	45
Ionia	2,800	1,900	71	135	2,400	1,500	70	105
Jackson	1,600	1,100	55	61	1,400	900	48	43
Shiawassee	2,400	2,200	75	165	2,800	2,600	92	240
Other counties ²	1,100	900	64	58	1,000	900	48	43
South Central	15,000	12,500	71	890	15,000	12,000	72	860
Genesee	700	550	75	41	800	750	76	57
Lapeer	1,800	1,400	68	95	2,000	1,900	63	120
Lenawee	900	800	79	63	1,000	950	55	52
Macomb	800	700	63	44	700	650	82	53
Monroe	900	800	100	80	1,200	1,000	93	93
St Clair	1,800	1,400	75	105	1,200	1,150	69	79
Washtenaw	1,200	1,000	66	66	1,200	1,150	77	89
Other counties ²	900	750	61	46	900	650	42	27
Southeast	9,000	7,400	73	540	9,000	8,200	70	570
Michigan	80,000	65,000	68	4,420	90,000	75,000	61	4,575

¹ Estimates not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Soybeans: Acreage, yield, and production, by county, 2004-2005 ¹

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Alpena	2,100	2,000	20	39	2,600	2,500	34	86
Montmorency	2,000	2,000	37	73	1,400	1,400	41	57
Ogemaw	1,000	1,000	24	24	800	800	45	36
Presque Isle	3,200	3,000	29	86	4,200	3,900	31	121
Other counties ²	2,700	2,500	19	48	2,000	1,900	42	80
Northeast	11,000	10,500	26	270	11,000	10,500	36	380
Mason	2,200	2,200	27	60	2,600	2,500	44	110
Muskegon	6,000	6,000	32	190	5,500	5,500	35	190
Newaygo	4,200	4,200	27	112	4,900	4,900	29	140
Oceana	3,600	3,600	30	108	3,000	3,000	30	90
West Central	16,000	16,000	29	470	16,000	15,900	33	530
Clare	1,000	900	20	18				
Gladwin	4,000	4,000	29	116	4,300	4,300	42	180
Gratiot	86,000	86,000	33	2,850	86,000	86,000	39	3,370
Isabella	47,000	46,000	29	1,350	48,000	48,000	46	2,220
Mecosta					1,200	1,200	38	45
Midland	21,300	21,000	31	647	19,500	19,500	40	780
Montcalm	19,000	19,000	29	546	20,000	20,000	40	790
Other counties ²	1,700	1,100	12	13	1,000	1,000	45	45
Central	180,000	178,000	31	5,540	180,000	180,000	41	7,430
Arenac	15,200	15,000	32	480	14,600	14,500	40	580
Bay	42,300	42,000	34	1,410	37,800	37,700	40	1,500
Huron	53,500	53,000	43	2,260	50,600	48,300	46	2,210
Saginaw	97,000	97,000	34	3,250	100,000	98,500	33	3,260
Sanilac	121,000	118,000	38	4,490	134,000	134,000	45	6,060
Tuscola	81,000	80,000	38	3,010	78,000	77,000	39	2,990
East Central	410,000	405,000	37	14,900	415,000	410,000	40	16,600
Allegan	47,000	46,000	42	1,920	44,700	44,400	42	1,870
Berrien	45,000	45,000	44	1,990	44,900	44,700	33	1,460
Cass	48,000	47,000	43	2,030	46,900	46,800	35	1,660
Kalamazoo	36,000	36,000	41	1,460	34,600	34,500	41	1,400
Kent	22,000	22,000	35	780	22,000	21,900	42	920
Ottawa	22,000	22,000	36	795	22,400	22,300	30	670
Van Buren	25,000	25,000	41	1,025	24,500	24,400	34	820
Southwest	245,000	243,000	41	10,000	240,000	239,000	37	8,800
Barry	31,000	30,000	41	1,240	30,100	30,000	37	1,110
Branch	72,000	72,000	41	2,930	74,000	73,900	39	2,900
Calhoun	71,000	71,000	42	2,970	72,200	72,100	34	2,470
Clinton	79,000	79,000	40	3,130	75,700	75,600	35	2,630
Eaton	69,000	68,000	44	2,970	68,900	68,800	34	2,310
Hillsdale	70,000	70,000	40	2,810	70,000	69,900	42	2,950
Ingham	56,000	56,000	47	2,640	54,900	54,800	38	2,060
Ionia	61,000	60,000	43	2,560	59,900	59,800	40	2,420
Jackson	40,000	40,000	41	1,620	44,600	44,500	38	1,670
St Joseph	55,000	54,000	44	2,350	56,000	56,000	42	2,370
Shiawassee	81,000	80,000	35	2,780	88,700	88,600	34	3,010
South Central	685,000	680,000	41	28,000	695,000	694,000	37	25,900

See footnote(s) at end of table.

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Soybeans: Acreage, yield, and production, by county, 2004-2005 ¹ (continued)

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Genesee	42,000	41,000	31	1,270	42,700	42,600	38	1,610
Lapeer	46,000	46,000	31	1,410	49,000	49,000	39	1,910
Lenawee	119,000	118,000	39	4,610	116,000	116,000	44	5,120
Livingston	20,000	19,500	42	825	19,700	19,700	36	700
Macomb	22,000	22,000	37	810	21,200	21,200	40	840
Monroe	84,000	83,000	37	3,090	80,600	79,000	42	3,340
Oakland	3,000	2,700	31	83	3,000	3,000	30	90
St Clair	62,000	61,000	34	2,070	59,600	59,500	40	2,390
Washtenaw	47,000	47,000	36	1,690	44,700	44,500	40	1,780
Wayne	5,000	4,800	30	142	3,500	3,500	34	120
Southeast	450,000	445,000	36	16,000	440,000	438,000	41	17,900
Other districts ²	3,000	2,500	24	60	3,000	2,600	27	70
Michigan	2,000,000	1,980,000	38.0	75,240	2,000,000	1,990,000	39.0	77,610

¹ Estimates not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Sugarbeets: Acreage, yield, and production, by county, 2004-2005 ¹

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>Acres</i>	<i>Acres</i>	<i>Tons</i>	<i>1,000 Tons</i>
Northeast					600	600	21.7	13
Gladwin	1,000	1,000	17.0	17	1,000	1,000	23.0	23
Gratiot	15,500	14,700	18.8	277	11,000	10,800	20.4	220
Isabella					900	900	20.0	18
Midland	4,200	4,200	18.3	77	3,200	3,200	19.7	63
Montcalm	1,100	1,100	20.9	23	1,100	1,100	22.7	25
Central	22,800	22,000	18.6	410	17,200	17,000	20.5	349
Arenac	4,700	4,650	16.3	76	3,700	3,700	23.5	87
Bay	19,300	19,100	18.8	360	14,500	14,000	19.1	268
Huron	52,000	51,600	22.1	1,140	54,500	54,000	22.6	1,220
Saginaw	17,500	17,350	21.5	373	16,300	16,200	20.1	326
Sanilac	20,500	20,300	22.3	453	20,000	19,800	22.0	436
Tuscola	22,000	22,000	22.6	498	21,000	20,600	20.5	423
East Central	136,000	135,000	21.5	2,900	130,000	128,300	21.5	2,760
Clinton					1,800	1,800	19.4	35
Ionia					500	500	16.0	8
Shiawassee					1,000	900	20.0	18
South Central					3,300	3,200	19.1	61
Genesee	650	650	26.2	17	700	700	20.0	14
Lapeer	950	950	24.2	23	1,000	1,000	20.0	20
St Clair	800	800	20.0	16	1,200	1,200	17.5	21
Southeast	3,000	2,900	22.8	66	2,900	2,900	19.0	55
Other districts ²	3,200	3,100	20.3	63				
Michigan	165,000	163,000	21.1	3,439	154,000	152,000	21.3	3,238

¹ Estimates not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Wheat: Acreage, yield, and production, by county, 2004-2005 ¹

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Upper Peninsula	1,000	900	33	30	1,000	1,000	30	30
Grand Traverse	1,000	950	55	52	1,500	1,500	43	64
Missaukee	800	800	49	39	1,100	1,000	45	45
Other counties ²	1,700	1,650	42	69	1,400	1,400	36	51
Northwest	3,500	3,400	47	160	4,000	3,900	41	160
Alcona	1,300	1,100	49	54	1,200	1,200	68	81
Alpena	3,900	3,800	57	216	3,900	3,900	52	204
Iosco	2,200	2,100	60	126	1,900	1,800	74	133
Montmorency	1,100	1,100	70	77	1,200	1,200	48	58
Ogemaw	1,500	1,500	78	117	1,500	1,500	76	114
Presque Isle	3,100	3,000	46	138	3,300	3,250	44	143
Other counties ²	900	900	47	42	1,000	850	44	37
Northeast	14,000	13,500	57	770	14,000	13,700	56	770
Mason	3,600	3,600	51	182	4,100	4,100	60	245
Muskegon	2,600	2,500	36	90	2,700	2,350	54	126
Newaygo					2,200	2,050	52	107
Oceana	2,000	1,900	47	89				
Other counties ²	2,300	2,200	54	119	2,000	2,000	61	122
West Central	10,500	10,200	47	480	11,000	10,500	57	600
Clare					1,200	1,200	48	57
Gladwin	2,400	2,350	59	138	1,900	1,800	46	82
Gratiot	23,100	21,900	69	1,510	21,800	21,100	72	1,520
Isabella	22,000	21,500	83	1,780	20,500	20,000	62	1,240
Mecosta	2,100	2,000	49	97	1,900	1,900	35	67
Midland	5,400	5,300	72	381	4,400	4,300	67	290
Montcalm	15,500	14,000	60	835	13,800	13,700	53	724
Osceola					500	500	40	20
Other counties ²	1,500	1,450	48	69				
Central	72,000	68,500	70	4,810	66,000	64,500	62	4,000
Arenac	7,300	7,100	73	515	7,000	6,600	72	472
Bay	13,900	13,600	72	980	14,000	13,600	68	923
Huron	49,500	48,500	82	4,000	50,900	50,700	80	4,050
Saginaw	33,000	32,500	71	2,320	25,800	25,400	71	1,800
Sanilac	54,500	53,000	70	3,700	51,500	51,200	71	3,610
Tuscola	32,800	31,800	78	2,485	30,800	30,500	70	2,145
East Central	191,000	186,500	75	14,000	180,000	178,000	73	13,000
Allegan	10,800	10,500	59	622	9,000	9,000	66	595
Berrien	4,900	4,800	58	278	4,700	4,600	60	274
Cass	5,100	4,900	52	255	5,100	3,700	51	190
Kalamazoo	5,200	5,100	50	257	4,000	3,950	50	199
Kent	7,500	7,000	53	368	6,100	5,800	58	338
Ottawa	5,800	5,600	52	289	4,800	4,750	64	306
Van Buren	1,700	1,100	37	41	1,300	1,100	44	48
Southwest	41,000	39,000	54	2,110	35,000	32,900	59	1,950

See footnote(s) at end of table.

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Wheat: Acreage, yield, and production, by county, 2004-2005 ¹ (continued)

County and district	2004				2005			
	Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>	<i>Acres</i>	<i>Acres</i>	<i>Bushels</i>	<i>1,000 Bu</i>
Barry	9,700	9,200	54	499	8,300	8,250	66	541
Branch	9,500	8,700	49	423	8,600	8,550	55	466
Calhoun	14,800	14,500	47	680	13,600	13,400	53	713
Clinton	28,100	27,500	65	1,790	23,100	22,600	73	1,640
Eaton	22,800	22,300	58	1,300	18,000	17,900	63	1,130
Hillsdale	15,200	14,900	50	740	14,800	14,700	64	939
Ingham	21,400	21,000	61	1,280	19,200	19,100	66	1,260
Ionia	15,300	15,000	57	850	12,400	12,400	64	792
Jackson	14,800	14,500	51	740	10,600	10,500	53	557
St Joseph	4,700	4,600	47	218	3,700	3,700	49	182
Shiawassee	32,700	31,800	59	1,880	25,700	24,900	62	1,540
South Central	189,000	184,000	57	10,400	158,000	156,000	63	9,760
Genesee	13,400	13,100	57	750	10,800	10,600	58	611
Lapeer	14,000	13,200	61	810	12,600	12,600	62	784
Lenawee	37,800	37,000	65	2,410	37,000	36,300	74	2,680
Livingston	9,100	8,900	54	485	8,300	8,300	61	510
Macomb	5,300	5,200	63	325	4,700	4,600	63	288
Monroe	25,300	24,700	67	1,650	22,600	22,300	72	1,610
Oakland	1,500	1,400	50	70	1,100	1,100	45	49
St Clair	16,200	15,400	58	900	18,300	18,200	65	1,190
Washtenaw	14,700	14,400	54	775	14,900	14,900	61	916
Wayne	700	700	36	25	700	600	53	32
Southeast	138,000	134,000	61	8,200	131,000	129,500	67	8,670
Michigan	660,000	640,000	64	40,960	600,000	590,000	66	38,940

¹ Estimates not published for counties with less than 500 acres.

² Estimates not published separately because of insufficient data or to avoid disclosure of individual operations.

Cattle: January 1, by county, 2005-2006 ¹

County and district	All cattle and calves		Milk cows		County and district	All cattle and calves		Milk cows	
	2005	2006	2005	2006		2005	2006	2005	2006
	<i>Head</i>	<i>Head</i>	<i>Head</i>	<i>Head</i>		<i>Head</i>	<i>Head</i>	<i>Head</i>	<i>Head</i>
Alger	1,700	1,800			Arenac	6,000	6,500	2,600	2,700
Baraga	1,100	1,100			Bay	4,000	4,500	1,500	1,500
Chippewa	9,000	9,000	1,000	1,000	Huron	89,000	98,000	18,600	20,900
Delta	8,300	8,000	1,600	1,500	Saginaw	9,000	9,000	2,500	2,500
Dickinson	3,000	3,000	700	600	Sanilac	53,000	54,000	18,500	17,900
Houghton	1,500	1,400			Tuscola	18,000	18,000	4,300	4,500
Iron	1,900	1,700			East Central	179,000	190,000	48,000	50,000
Mackinac	2,500	2,400	800	700					
Marquette	2,000	1,700			Allegan	43,000	50,000	17,000	18,700
Menominee	17,500	17,000	6,900	7,000	Berrien	4,900	4,900	1,500	1,600
Ontonagon	3,000	3,200	600	500	Cass	5,300	5,000	700	700
Schoolcraft	1,300	1,300			Kalamazoo	12,000	12,000	5,200	
Other counties ²	1,200	1,400	1,700	1,700	Kent	28,000	29,000	10,400	10,400
Upper Peninsula	54,000	53,000	13,300	13,000	Ottawa	38,000	40,000	13,200	11,800
					Van Buren	7,800	7,100	2,000	
Antrim	3,900	4,000	700	700	Other counties ²				8,800
Benzie	1,500	1,500			Southwest	139,000	148,000	50,000	52,000
Charlevoix	3,200	3,100	600	600					
Emmet	4,700	5,000	700	700	Barry	25,000	26,000	8,800	9,200
Grand Traverse	4,800	5,100			Branch	11,000	11,000	2,600	2,800
Kalkaska	900	1,000			Calhoun	16,500	15,000	4,300	4,100
Leelanau	2,900	2,900			Clinton	47,000	47,000	19,800	19,700
Manistee	2,100	2,200			Eaton	12,000	12,000	1,900	1,900
Missaukee	24,000	24,000	10,000	10,700	Hillsdale	24,000	25,000	11,300	11,000
Wexford	4,000	4,200	700	700	Ingham	17,000	18,000	5,400	5,500
Other counties ²			1,200	1,100	Ionia	35,500	34,500	11,800	12,200
Northwest	52,000	53,000	13,900	14,500	Jackson	23,000	23,000	3,700	3,900
					St Joseph	7,500	7,500	1,300	1,400
Alcona	5,500	5,900	800	1,000	Shiawassee	12,500	13,000	3,800	3,300
Alpena	10,000	9,500	3,200	3,400	South Central	231,000	232,000	74,700	75,000
Cheboygan	5,400	5,500	1,200	1,200					
Iosco	8,800	8,500	2,000	2,000	Genesee	7,300	7,200	1,700	1,700
Montmorency	3,200	3,000	700	700	Lapeer	18,000	17,000	4,000	3,900
Ogemaw	15,000	16,000	5,500	5,600	Lenawee	29,000	28,500	10,200	9,900
Oscoda	3,000	3,100			Livingston	7,500	8,000	2,800	2,800
Otsego	2,300				Macomb	4,200	4,200	600	600
Presque Isle	7,300	6,700	1,600	1,400	Monroe	4,300	4,300		
Other counties ²	500	2,800	700	700	St Clair	11,000	11,000	1,700	1,400
Northeast	61,000	61,000	15,700	16,000	Washtenaw	14,000	13,000	3,000	2,900
					Other counties ²	1,700	1,800	600	800
Lake	2,000	2,100			Southeast	97,000	95,000	24,600	24,000
Mason	7,100	7,400	2,400	2,300					
Muskegon	18,000	20,000			Michigan	1,010,000	1,040,000	307,000	312,000
Newaygo	24,000	24,500	12,100	12,400					
Oceana	7,900	8,000	2,500	2,400					
Other counties ²			6,700	6,900					
West Central	59,000	62,000	23,700	24,000					
Clare	14,000	13,000	2,600	2,500					
Gladwin	7,000	7,200	1,300						
Gratiot	29,000	33,000	9,600	10,100					
Isabella	25,000	27,000	7,500	7,300					
Mecosta	15,000	15,000	4,500	4,600					
Midland	5,000	5,800	2,100						
Montcalm	24,000	25,000	10,100	9,900					
Osceola	19,000	20,000	5,400	5,300					
Other counties ²				3,800					
Central	138,000	146,000	43,100	43,500					

¹ Estimates are not published for counties with less than 500 head.

² Not published separately because of insufficient data or to avoid disclosure of individual operations.

Dairy: Number of operations and total milk produced, by county, 2004-2005 ¹

County and district	2004		2005		County and district	2004		2005	
	Operations	Total milk produced	Operations	Total milk produced		Operations	Total milk produced	Operations	Total milk produced
	<i>Number</i>	<i>1,000 pounds</i>	<i>Number</i>	<i>1,000 pounds</i>		<i>Number</i>	<i>1,000 pounds</i>	<i>Number</i>	<i>1,000 pounds</i>
Alger	9		9		Arenac	24	66,800	24	70,000
Baraga	2		2		Bay	16	22,600	15	24,000
Chippewa	16	15,700	14	14,700	Huron	147	449,000	142	524,000
Delta	23	25,200	21	23,900	Saginaw	31	50,700	30	52,000
Dickinson	10	9,900	9	11,400	Sanilac	216	338,000	197	339,000
Houghton	6		5		Tuscola	56	82,900	52	101,000
Iron	1		1		East Central	490	1,010,000	460	1,110,000
Mackinac	8	16,100	8	16,300					
Marquette	4		5		Allegan	103	322,000	102	360,000
Menominee	72	123,000	66	130,000	Berrien	13	46,700	13	48,000
Ontonagon	8	8,200	9	7,100	Cass	16	8,200	15	8,000
Schoolcraft	1		1		Kalamazoo	14	109,500	14	
Other counties ²		16,900		21,600	Kent	63	172,000	61	170,000
Upper Peninsula	160	215,000	150	225,000	Ottawa	87	341,000	86	380,000
Antrim	11	12,400	10	12,700	Van Buren	19	50,600	19	
Charlevoix	8	10,700	7	11,400	Other counties				224,000
Emmet	9	13,100	8	12,100	Southwest	315	1,050,000	310	1,190,000
Grand Traverse	8		9						
Kalkaska	3		3		Barry	44	252,000	43	247,000
Leelanau	9		8		Branch	70	55,100	68	60,700
Manistee	4		4		Calhoun	46	117,000	44	120,000
Missaukee	71	202,000	69	229,000	Clinton	87	466,000	82	492,000
Wexford	17	15,200	17	13,500	Eaton	38	32,700	36	33,700
Other counties ²		16,600		16,300	Hillsdale	165	132,000	160	131,000
Northwest	140	270,000	135	295,000	Ingham	50	109,000	45	117,000
Alcona	9	11,600	10	15,300	Ionia	74	242,000	70	267,000
Alpena	45	57,000	46	59,000	Jackson	35	123,000	34	133,000
Cheboygan	9	21,200	9	22,300	St Joseph	38	18,500	36	20,300
Iosco	20	37,000	19	38,000	Shiawassee	43	67,700	42	68,300
Montmorency	12	14,000	12	14,000	South Central	690	1,615,000	660	1,690,000
Ogemaw	41	105,000	41	107,000					
Oscoda	18		18		Genesee	15	32,600	15	31,800
Otsego	2		2		Lapeer	69	70,500	62	68,500
Presque Isle	19	26,500	18	25,700	Lenawee	40	295,000	38	316,000
Other counties ²		12,700		13,700	Livingston	19	64,400	18	65,500
Northeast	175	285,000	175	295,000	Macomb	12	8,700	12	8,800
Lake	4		4		Monroe	8		6	
Mason	31	43,500	29	44,100	Oakland	2		2	
Muskegon	26		27		St Clair	32	28,800	28	27,500
Newaygo	89	177,000	87	182,000	Washtenaw	38	61,000	34	57,000
Oceana	30	32,700	28	25,500	Other counties		9,000		9,900
Other counties ²		176,800		168,400	Southeast	235	570,000	215	585,000
West Central	180	430,000	175	420,000					
Clare	46	53,800	46	57,500	Michigan	2,900	6,330,000	2,800	6,735,000
Gladwin	62	18,900	62						
Gratiot	41	235,000	42	267,000					
Isabella	86	152,000	85	149,000					
Mecosta	111	72,500	117	73,500					
Midland	6	18,800	5						
Montcalm	98	203,000	98	195,000					
Osceola	65	131,000	65	143,000					
Other counties ²				40,000					
Central	515	885,000	520	925,000					

¹ Production estimates are not published for counties with 5 or fewer farms or with less than 5 million pounds of annual production. An operation is any place having one or more head on hand at any time during the year.

² Not published separately because of insufficient data or to avoid disclosure of individual operations.

Hogs and pigs: December 1, by county, 2004-2005 ¹

County and district	All hogs and pigs		County and district	All hogs and pigs	
	2004	2005		2004	2005
	<i>Head</i>	<i>Head</i>		<i>Head</i>	<i>Head</i>
Chippewa	1,000	1,100	Allegan	164,000	160,000
Marquette		500	Berrien	15,000	20,000
Menominee	600		Cass	188,000	180,000
Other counties ²	900	1,200	Kalamazoo	26,000	27,000
Upper Peninsula	2,500	2,800	Kent	10,000	11,000
Antrim		500	Ottawa	65,000	72,000
Benzie		800	Van Buren	32,000	30,000
Emmet		500	Southwest	500,000	500,000
Grand Traverse	4,000	3,700	Barry	7,000	8,000
Kalkaska	800		Branch	65,000	65,000
Missaukee	900	500	Calhoun	55,000	56,000
Other counties ²	1,800	1,200	Clinton	12,000	12,000
Northwest	7,500	7,200	Eaton	9,000	10,000
Cheboygan		500	Hillsdale	31,000	31,000
Other counties ²	2,000	2,000	Ingham	4,000	5,000
Northeast	2,000	2,500	Ionia	15,000	18,500
Lake	600	500	Jackson	3,000	3,500
Mason	1,600	1,800	St Joseph	12,000	14,000
Muskegon	6,000	5,800	Shiawassee	2,000	2,000
Newaygo	6,800	6,900	South Central	215,000	225,000
Oceana	18,000	19,000	Genesee	2,000	2,500
West Central	33,000	34,000	Lapeer	2,700	2,000
Clare	2,500	2,500	Lenawee	7,200	9,000
Gladwin	4,300	4,000	Livingston	900	900
Gratiot	29,000	30,000	Macomb	1,700	1,200
Isabella	9,000	8,500	Monroe	6,700	6,000
Mecosta	8,000	11,000	St Clair	1,500	1,400
Midland	1,400	1,500	Washtenaw	4,900	5,000
Montcalm	16,800	16,000	Other counties ²	400	500
Osceola	1,000	1,500	Southeast	28,000	28,500
Central	72,000	75,000	Michigan	950,000	960,000
Arenac	1,500	1,400			
Bay	1,500	1,400			
Huron	64,000	62,000			
Saginaw	6,000	5,900			
Sanilac	6,000	5,300			
Tuscola	11,000	9,000			
East Central	90,000	85,000			

¹ Estimates are not published for counties with less than 500 hogs.

² Not published separately because of insufficient data or to avoid disclosure of individual operations.

Useful Agriculture Internet Sites

State and Federal Agencies

AMS-Agricultural Marketing Service, Market News	www.ams.usda.gov/marketnews.htm
APHIS-Animal and Plant Health Inspection Service	www.aphis.usda.gov
ERS-Economic Research Service	www.ers.usda.gov
FSA-Farm Service Agency	www.fsa.usda.gov
MDA-Michigan Department of Agriculture	www.michigan.gov/mda
MSU Extension	www.msue.msu.edu
NASS-National Agricultural Statistics Service	www.nass.usda.gov
NRCS-Natural Resources Conservation Service	www.nrcs.usda.gov
RD-Rural Development	www.rurdev.usda.gov
USDA-United States Department of Agriculture	www.usda.gov
USDA, NASS, Michigan Field Office	www.nass.usda.gov

Commodity Groups

Apples-Michigan Apple Committee	www.michiganapples.com
Asparagus-Michigan Asparagus Advisory Board	www.asparagus.com
Bison-Michigan Bison Association	www.michiganbison.com
Blueberries-Michigan Blueberry Growers Association	www.blueberries.com
Cattle-Michigan Beef Industry Commission	www.mibeef.org
Celery-Michigan Celery Promotion Cooperative	www.michigancelery.com
Cherries-Cherry Industry Administrative Board (CIAB)	www.cherryboard.org
Cherries-Cherry Marketing Institute	www.cherrymkt.org
Christmas Trees-Michigan Christmas Tree Association	www.mcta.org
Corn-Michigan Corn Growers Association	www.micorn.org
Dairy-Michigan Milk Producers Association	www.mimilk.com
Dairy-United Dairy Industry of MI	www.udim.org
Dry Beans-Michigan Bean Commission	www.michiganbean.org
Dry Beans-Michigan Bean Shippers / Agri-Business Association	www.miagbiz.org
Floriculture-Michigan Floral Association	www.michiganfloral.org
Grapes-Michigan Grape and Wine Industry Council	www.michiganwines.com
Horses-Michigan Horse Council	www.michiganhorsecouncil.com
Nursery-Michigan Nursery & Landscape Association	www.mnla.org
Peaches-Michigan Peach Sponsors	www.michiganpeach.org
Pork-National Pork Board and Pork Producers Council	www.nppc.org
Potatoes-Michigan Potato Industry Commission	www.mipotato.com
Soybeans-Michigan Soybean Promotion Committee	www.michigansoybean.org
Turfgrass-Michigan Turfgrass Association	www.michiganturfgrass.org
Turkeys-Michigan Turkey Producers	www.miturkey.com

Other Related Sites

American Farm Bureau Federation	www.fb.org
Michigan Emerging Disease Issues	www.bovinetb.com
Michigan Farm Bureau	www.michiganfarmbureau.com
Michigan Food and Farming Systems (MIFFS) on-line directory	www.miffsmarketline.org
MSU Agriculture Weather Office	www.agweather.geo.msu.edu

INTERNET ACCESS

Reports, data products, and services published by the USDA, NASS, Michigan Field Office, Michigan Department of Agriculture, and National Agricultural Statistics Service of the United States Department of Agriculture are available on the Worldwide Web. There is no charge for connecting to these Internet addresses:

- **Michigan Department of Agriculture (MDA)**

MDA home page at: www.michigan.gov/mda

- **USDA, NASS, Michigan Field Office**

From the NASS home page, www.nass.usda.gov, click on the Statistics by State dropdown to access the Michigan Internet page.

On the Michigan Internet page, you will find up-to-date data such as Crop-Weather releases, press releases, *Agriculture Across Michigan*, and county estimates.

- **National Agricultural Statistics Service (NASS)**

NASS home page at: www.nass.usda.gov

You can access national releases, 2002 Census of Agriculture data, and home pages of **NASS** Field Offices including Michigan from this web site. *Michigan Crop Weather* and national releases by free e-mail subscription are available from this site.

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NASSFax service is available for some reports from your fax machine. Please call 202-720-2000, using the handset attached to your fax. Respond to the voice prompts.

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ASSISTANCE

For assistance or questions regarding Michigan agriculture, call 1-800-453-7501. Further information about NASS or its products or services can be obtained by contacting the Agricultural Statistics HOTLINE at 1-800-727-9540, 7:30 a.m. to 4:30 p.m. ET or e-mail: nass@nass.usda.gov.



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